Attorney's Docket No. _____9276.2_____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s):

   WEINREICH et al
   (List of inventors is attached on two sheets)

WARNING: Patent must be applied for in the name(s) of all of the actual inventor(s). 37 CFR 1.41(a) and 1.53(b).

For (title):

   METHOD AND APPARATUS FOR CONSTRUCTING A
   NETWORKING DATABASE AND SYSTEM

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this New Application Transmittal and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date __January 17, 1997__, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number __EM461552710US__, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

SARAH MACY
_____
(type or print name of person mailing paper)

_____
Signature of person mailing paper

NOTE: Each paper or fee referred to as enclosed herein has the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 CFR 1.10(b).

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 CFR 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

1. Type of Application

This new application is for a(n)

(check one applicable item below)

☒ Original (nonprovisional)

☐ Design

☐ Plant

WARNING: **Do not** *use this transmittal for a completion in the U.S. of an International Application under 35 U.S.C. 371(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application.*

WARNING: **Do not** *use this transmittal for the filing of a provisional application.*

NOTE: *If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION.*

☐ Divisional.

☐ Continuation.

☐ Continuation-in-part (C-I-P).

2. Benefit of Prior U.S. Application(s) (35 U.S.C. 119(e), 120, or 121)

NOTE: *If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICA-TION(S) CLAIMED.*

WARNING: *If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. 120, 121 or 365(c), the 20–year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. 120, 121 or 365(c). (35 U.S.C. 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. 119, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.*

WARNING: *When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application* **must** *be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).*

☐ The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

3. Papers Enclosed That Are Required for Filing Date under 37 C.F.R. 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design) Application

__57__ Pages of specification

__2__ Pages of claims

__1__ Pages of Abstract

__29__ Sheets of drawing

☐ formal

☒ informal

WARNING: **DO NOT** submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. Comments on proposed new 37 CFR 1.84. Notice of March 9, 1988 (1990 O.G. 57-62).

NOTE: "Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm. (5/8 inch) down from the top of the page." 37 C.F.R. 1.84(c)).

(complete the following, if applicable)

☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).

4. Additional papers enclosed

☐ Preliminary Amendment

☐ Information Disclosure Statement (37 C.F.R. 1.98)

☐ Form PTO–1449 (PTO/SB/08A and 08B)

☐ Citations

☐ Declaration of Biological Deposit

☐ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative

☐ Special Comments

☒ Other   Microfiche Appendix (7 films)

5. Declaration or oath

☐ Enclosed

Executed by

(check all applicable boxes)

☐ inventor(s).

☐ legal representative of inventor(s).
37 CFR 1.42 or 1.43.

☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.

☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. *See* item 13 below for fee.

☒ Not Enclosed.

WARNING: Where the filing is a completion in the U.S. of an International Application, but where a declaration is not available, or where the completion of the U.S. application contains subject matter in addition to the International Application, the application may be treated as a continuation or continuation-in-part, as the case may be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION CLAIMED.

☐ Application is made by a person authorized under 37 C.F.R. 1.41(c) on behalf of *all* the above named inventor(s).

(The declaration or oath, along with the surcharge required by 37 CFR 1.16(e) can be filed subsequently).

NOTE: It is important that all the correct inventor(s) are named for filing under 37 CFR 1.41(c) and 1.53(b).

☐ Showing that the filing is authorized.
(not required unless called into question. 37 CFR 1.41(d))

6. Inventorship Statement

WARNING: If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.

The inventorship for all the claims in this application are:

☐ The same.

or

☐ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,

☐ is submitted.

☐ will be submitted.

7. Language

NOTE: An application including a signed oath or declaration may be filed in a language other than English. A verified English translation of the non-English language application and the processing fee of $130.00 required by 37 CFR 1.17(k) is required to be filed with the application, or within such time as may be set by the Office. 37 CFR 1.52(d).

NOTE: A non-English oath or declaration in the form provided or approved by the PTO need not be translated. 37 CFR 1.69(b).

☒ English

☐ Non-English

☐ The attached translation is a verified translation. 37 C.F.R. 1.52(d).

8. Assignment

☒ An assignment of the invention to <u>Macroview Communications Corporation</u>

☐ is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☐ FORM PTO 1595 is also attached.

☒ will follow.

NOTE: "If an assignment is submitted with a new application, send two separate letters-one for the application and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).

WARNING: A newly executed "CERTIFICATE UNDER 37 CFR 3.73(b)" must be filed when a continuation-in-part application is filed by an assignee. Notice of April 30, 1993, 1150 O.G. 62-64.

9. Certified Copy

Certified copy(ies) of application(s)

Country	Appln. no.	Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

☐ is (are) attached.

☐ will follow.

NOTE: The foreign application forming the basis for the claim for priority must be referred to in the oath or declaration. 37 CFR 1.55(a) and 1.63.

NOTE: This item is for any foreign priority for which the application being filed directly relates. If any parent U.S. application or International Application from which this application claims benefit under 35 U.S.C. 120 is itself entitled to priority from a prior foreign application, then complete item 18 on the ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

10. Fee Calculation (37 C.F.R. 1.16)

A. ☒ Regular application

CLAIMS AS FILED			
Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) $770.00
Total Claims (37 CFR 1.16(c)) − 20 =		✕	$ 22.00
Independent Claims (37 CFR 1.16(b)) − 3 =		✕	$ 80.00
Multiple dependent claim(s), if any (37 CFR 1.16(d))		+	$260.00

☐ Amendment cancelling extra claims is enclosed.

☐ Amendment deleting multiple-dependencies is enclosed.

☐ Fee for extra claims is not being paid at this time.

NOTE: If the fees for extra claims are not paid on filing they must be paid or the claims cancelled by amendment, prior to the expiration of the time period set for response by the Patent and Trademark Office in any notice of fee deficiency. 37 CFR 1.16(d).

Filing Fee Calculation $_____

B. ☐ Design application
   ($320.00—37 CFR 1.16(f))

                            Filing Fee Calculation $_____

C. ☐ Plant application
   ($530.00—37 CFR 1.16(g))

                            Filing fee calculation $_____

11. Small Entity Statement(s)

☐ Verified Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.

WARNING: *"Status as a small entity in one application or patent does not affect any other application or patent, including applications or patents which are directly or indirectly dependent upon the application or patent in which the status has been established. A nonprovisional application claiming benefit under 35 U.S.C. 119(e), 120, 121 or 365(c) of a prior application may rely on a verified statement filed in the prior application if the nonprovisional application includes a reference to a verified statement in the prior application or includes a copy of the verified statement filed in the prior application if status as a small entity is still proper and desired." 37 C.F.R. § 1.28(a).*

(complete the following, if applicable)

☐ Status as a small entity was claimed in prior application

_____ / _____, filed on _____, from which benefit is being claimed for this application under:

35 U.S.C. ☐ 119(e),
               ☐ 120,
               ☐ 121,
               ☐ 365(c),

and which status as a small entity is still proper and desired.

☐ A copy of the verified statement in the prior application is included.

Filing Fee Calculation (50% of **A, B** or **C** above)

                        $_____

NOTE: *Any excess of the full fee paid will be refunded if a verified statement and a refund request are filed within 2 months of the date of timely payment of a full fee. The two-month period is not extendable under § 1.136. 37 CFR 1.28(a).*

12. Request for International-Type Search (37 C.F.R. 1.104(d))

(complete, if applicable)

☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

13. Fee Payment Being Made at This Time

☒ Not Enclosed

☐ No filing fee is to be paid at this time.
(This and the surcharge required by 37 C.F.R. 1.16(e) can be paid subsequently.)

☐ Enclosed

☐ Basic filing fee $ _____

☐ Recording assignment
($40.00; 37 C.F.R. 1.21(h))
(See attached "COVER SHEET FOR
ASSIGNMENT ACCOMPANYING NEW
APPLICATION".) $ _____

☐ Petition fee for filing by other than all the
inventors or person on behalf of the inventor
where inventor refused to sign or cannot be
reached
($130.00; 37 C.F.R. 1.47 and 1.17(h)) $ _____

☐ For processing an application with a
specification in
a non-English language
($130.00; 37 C.F.R. 1.52(d) and 1.17(k)) $ _____

☐ Processing and retention fee
($130.00; 37 C.F.R. 1.53(d) and 1.21(l)) $ _____

☐ Fee for international-type search report
($40.00; 37 C.F.R. 1.21(e)) $ _____

NOTE: *37 CFR 1.21(l) establishes a fee for processing and retaining any application that is abandoned for failing to complete the application pursuant to 37 CFR 1.53(d) and this, as well as the changes to 37 CFR 1.53 and 1.78, indicate that in order to obtain the benefit of a prior U.S. application, either the basic filing fee must be paid, or the processing and retention fee of § 1.21(l) must be paid, within 1 year from notification under § 53(d).*

Total fees enclosed $_____

14. Method of Payment of Fees

☐ Check in the amount of $_____

☐ Charge Account No. _____ in the amount of
$_____.

A duplicate of this transmittal is attached.

NOTE: *Fees should be itemized in such a manner that it is clear for which purpose the fees are paid. 37 CFR 1.22(b).*

15. Authorization to Charge Additional Fees

WARNING: *If no fees are to be paid on filing, the following items should <u>not</u> be completed.*

WARNING: *Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.*

☐ The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No. _____ :

☐ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)

☐ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)

NOTE: *Because additional fees for excess or multiple dependent claims not paid on filing or on later presentation must only be paid or these claims cancelled by amendment prior to the expiration of the time period set for response by the PTO in any notice of fee deficiency (37 CFR 1.16(d)), it might be best not to authorize the PTO to charge additional claim fees, except possibly when dealing with amendments after final action.*

☐ 37 C.F.R. 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)

☐ 37 C.F.R. 1.17 (application processing fees)

WARNING: *While 37 CFR 1.17(a), (b), (c) and (d) deal with extensions of time under § 1.136(a), this authorization should be made only with the knowledge that: "Submission of the appropriate extension fee under 37 C.F.R. 1.136(a) is to no avail <u>unless</u> a request or petition for extension is filed." (Emphasis added). Notice of November 5, 1985 (1060 O.G. 27).*

☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

NOTE: *Where an authorization to charge the issue fee to a deposit account has been filed before the mailing of a Notice of Allowance, the issue fee will be automatically charged to the deposit account at the time of mailing the notice of allowance. 37 CFR 1.311(b).*

NOTE: *37 CFR 1.28(b) requires "Notification of any change in loss of entitlement to small entity status must be filed in the application . . . prior to paying, or at the time of paying, . . . issue fee." From the wording of 37 CFR 1.28(b): (a) notification of change of status must be made even if the fee is paid as "other than a small entity" and (b) no notification is required if the change is to another small entity.*

16. Instructions as to Overpayment

☐ Credit Account No. _____

☐ Refund

SIGNATURE OF ATTORNEY

Reg. No. 31,110

Tel. No. (212) 506-5280

Robert M. Isackson
(type or print name of attorney)

Orrick, Herrington,& Sutcliffe LLP

P.O. Address

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Attachment Sheet 1

NAMES, ADDRESSES, AND CITIZENSHIP OF INVENTORS

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ATTACHMENT SHEET 2

NAMES, ADDRESSES, AND CITIZENSHIP OF INVENTORS
continued:

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INDIAN

2

PATENT APPLICATION
Attorney Docket No.: 9276.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Weinreich et al.

Serial No. : 08/785,559

Filed : January 17, 1997

For : METHOD AND APPARATUS FOR CONSTRUCTING A
NETWORKING DATABASE AND SYSTEM

Group Art Unit : Not Yet Known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Preliminary to examination, and in response to the Notice to File Missing Parts of

Application-Filing Date Granted, dated April 1, 1997, please amend the above-identified

application as follows:

IN THE ABSTRACT

Page 54, line 12, change "individuals, the" to --individuals. The--.

IN THE SPECIFICATION

Please amend the specification as follows:

Page 1, line 12, change "appendix" to --Appendix--.

Page 4, line 20, after "defined relationship" insert --and the sponsoring of the third user--.

Page 4, line 20, delete "first and".

Page 4, line 20, change "users" to --user a--.

Page 4, line 20, change "members" to --member--.

Page 4, line 25, change "though" to --through--.

Page 4, line 27, after "sponsored user" insert --confirming the original sponsored defined relationship and--.

Page 5, line 7, change "may include," to --includes,--.

Page 5, line 14, change "message," to --message--.

Page 5, delete line 19 entirely.

Page 5, line 20, delete "and in addition,".

Page 5, line 20, after "individual" and before "." insert --, and perhaps by providing selected information regarding the second individual--.

Page 5, line 21, change "may include," to --includes,--,

Page 5, line 22, change "name," to --name and--.

Page 6, line 1, after "addition" insert --perhaps--.

Page 6, line 4, change "of" to --with--.

Page 6, line 12, change "full" to --pre-registered--.

Page 6, lines 12-13, delete "database and satisfied certain preselected criteria. A full number is also"; and insert therefor --database. A pre-registered member who completes all of the other membership requirements (see Figs. 4A-4C) is--.

Page 6, line 15, after the second occurrence of "is" insert --,--.

Page 6, line 15, after "thus" insert --,--.

Page 6, line 23, change "web-site" to --Web site--.

Page 6, line 25, change "web-site" to --Web site--.

Page 6, line 25, delete the second occurrence of "provider".

Page 6, line 26, change "web-site" to --Web site--.

Page 7, line 1, change "that" to --who--.

Page 7, line 5, delete "via"; and
       line 6, delete comma after "via".

Page 7, line 6, change "home page" to --Web site--.

Page 7, lines 8, 13, 15, change "web-site" to --Web site--.

Page 7, lines 16-17, delete from "Similarly," through the end of the paragraph.

Page 7, line 24, after "millions" insert --,--.

Page 8, lines 6 and 9, change "that" to --who--.

Page 8, line 12, change "someone etc." to --someone, etc.,--.

Page 8, line 13, delete "who has".

Page 8, line 21, change "internet" to --Internet--.

Page 9, line 16, delete "a".

Page 9, line 16, change "chart" to "charts".

Page 9, line 18, delete "a".

Page 9, line 18, change "chart" to --charts--.

Page 9, line 19, delete "the present invention" and insert therefor -- Fig. 1--.

Page 9, line 21, change "USER2 Responds to Relationship Type Confirm Request" to --USER 2_Responds_to_ Relationship_Type_Confirm_Request--.

Page 9, lines 23-24, change "USER1 Responds to a Request to Verify a New E-mail Address" to --USER1_Responds_to_a_Request_to_Verify_a_New_E-mail_Address--.

Page 10, line 1, delete "Fig. 9 is a flow chart" and insert therefor -- Figs. 9A-9B are flow charts --.

Page 10, lines 2-3, delete ".[using the NDS of Fig. 1]".

Page 10, line 4, delete "10-____" and insert therefor --10A-10F--.

Page 10, line 11, delete "Fig. 9" and insert therefor --Figs. 9A-B--.

Page 10, line 12, delete "a flow chart" and insert therefor --flow charts--.

Page 10, line 16, delete "Fig. 16 is a flow chart" and insert therefor --Figs. 16A-16B are flow charts--.

Page 10, line 17, delete "1; and" and insert therefor --1.--.

Page 10, line 19, change "1." to --1; and--.

Page 10, after line 19, insert as a new paragraph --Fig. 18 is an example of a home page on a Web site accroding to the present invention.--.

Page 11, line 2, after "20" and before "." insert --(or some other form of Internet connectivity, such as a T-1, ISDN line, etc.)

Page 11, line 12, change "web server" to --Web server--.

Page 11, line 17, change ""web-TV"" to --"Web TV"--.

Page 11, line 19, after "Corporation" insert --,--.

Page 11, line 19, change "Computes as provided" to --Computers as may be--.

Page 11, line 25, change "COLD FUSION" to --COLD FUSION™ --.

Page 11, line 27, change "web" to --Web--.

Page 12, line 9, change "IEC" to --IDC--.

Page 12, line 10, delete "an".

Page 12, delete lines 17-20 and insert therefor --A queue-watcher 40 ("Q-watcher 40") polls database server 45, which retrieves the requested information from database 70 and returns it to Q-watcher 40. Q-watcher 40 uses the information to generate text messages that are passed to a mail server 35 for transmittal to users--.

Page 13, line 2, after "and" insert --,--.

Page 13, line 16, delete "a".

Page 13, line 17, change "server," first occurrence, to --watcher--.

Page 13, line 24, delete "ones of the".

Page 14, line 7 after "combinations" insert --are--.

Page 14, line 11, change "web-site" to --Web site--.

Page 14, line 17 delete "web-" and insert therefor --Web--.

Page 14, line 18, delete "(see Fig. 8)".

Page 14, line 18, change "502" to --600--.

Page 14, line 19, delete "at step 600" and after "BAM" insert --.--.

Page 15, line 1, after "by" insert --a--.

Page 15, lines 7 and 9, after "valid" insert --Internet--.

Page 15, line 16, after "If", insert --,-- and after "hand" insert --,--.

Page 15, line 19, change "70" to --server 45--.

Page 15, lines 21 and 23, change "if" to --whether--.

Page 15, line 24, change "cancelled" to --canceled--.

Page 15, line 26, change "cancelled" to --canceled--.

Page 15, line 27, change "lured" to --entered--.

Page 16, line 1, after 70, delete ",".

Page 16, lines 1-2, delete "or by revocation, as will be described"

Page 16, line 4, change "Fig." to --Figs.--

Page 16, line 4, change "has" to --had--.

Page 16, line 6, change "new," to --new or for a canceled member--.

Page 16, line 12, delete "not".

Page 16, line 14, delete "(Fig. 1)." and after "user" insert --.--.

Page 16, line 17, delete "e-mail address" and insert therefor --password-- and change "only sent" to --sent only--.

Page 16, line 17, after "thus" delete ",".

Page 16, line 20, change "new," to --new or for a canceled member--.

Page 16, line 21, change "if" to --whether--.

Page 16, line 25, before "delivered" insert --is--.

Page 17, line 1, change "if" to --whether--.

Page 17, line 2, delete "or is".

Page 17, line 3, change "is", first occurrence, to --was--.

Page 17, line 3, after "initiated." insert --Step 609 displays a screen H.BAM.FORM.SS.E3.--

Page 17, line 4, delete "step 609....H.BAM.FORM.SS.E3."

Page 17, line 15, change "that" to --who--.

Page 17, lines 19 and 23, change "microfiche appendix" to --Microfiche Appendix--.

Page 17, line 20, change "database service provider" to --DSP--.

Page 17, line 24, after "and" insert --,--.

Page 17, line 27, delete "there are" and insert therefor --a formcode is found--.

Page 18, line 9, change "if" to --whether--.

Page 18, line 11, change "if" to --whether--.

Page 18, line 12, delete "a valid" and insert therefor --an invalid--.

Page 18, line 13, after "602" insert --; Fig. 2--.

Page 18, line 13, after "member" and before ";", insert --(see step 820; Fig. 9B as discussed below)--.

Page 18, line 14, after "member" and before ";", insert --(see step 821; Fig. 9B as discussed below)--.

Page 18, line 15, after "member" and before ".", insert --(see step 822; Fig. 9C as discussed below)--.

Page 18, lines 16-17, delete the entire paragraph beginning with "At step" and ending with "is new." and insert therefor --If so, USER1 cannot list USER2. If not, the process proceeds to step 402.--

Page 18, line 18, after "server 45", change "if" to --whether--.

Page 18, line 20, after "806-809" and before ")", insert --; Fig. 9A--.

Page 18, line 20, before "confirmed" insert -- confirmed but pending confirmation of new type (see steps 810-813; Fig. 9A),--.

Page 18, line 21, after "814-815" and before ")", insert --; Fig. 9B--.

Page 18, line 21, after "denied" insert --by USER1 or USER2--.

Page 18, line 21, after "818-819" and before ")" insert --; Fig. 9B--.

Page 18, line 23, delete "Contacts" and insert therefor --New Relationship (see Figs. 9A-9B)--.

Page 19, line 7, change "assignes" to --assigns--.

Page 19, line 11, change "preferred" to --proffered--.

Page 19, line 15, after "membership" insert --(see Session Validation below) --.

Page 19, line 16, delete "Fig. 4", and insert therefor --Figs. 4A-4C--.

Page 19, line 22, delete "_)," and insert therefor --10A-10F)--.

Page 19, line 22, change "web-site" to --Web site--.

Page 19, line 25, change "web-site" to --Web site--.

Page 20, line 5, delete "usually the" and insert therefor --an--.

Page 20, line 7, after "that", insert --the--.

Page 20, line 7, change "include" to --includes--.

Page 20, line 9, change "password" to --PASSWORD--.

Page 20, line 13, change "if", first occurrence, to --whether--.

Page 20, line 19, change "if" to --whether--.

Page 21, line 2, after "displayed" and before ".", insert --and the user is prompted to reenter the information--.

Page 21, line 3, after "If" insert --,--.

Page 21, line 5, after "step 712", insert --(Fig. 4B)--.

Page 21, line 7, after "password" and before "." insert --and the user is prompted to reenter the information--.

Page 21, line 17, change "cold fusion" to --COLD FUSION 60--.

Page 21, line 22, delete "information".

Page 21, line 23, delete "information about the user for".

Page 21, line 24, delete "further example occupation" and insert therefor --occupational--.

Page 22, line 1, delete "at step 719,".

Page 22, line 2, after "input" and before ".", insert --at step 719--.

Page 22, line 3, after "message", insert --(at step 720A)--.

Page 22, line 4, change "The valid" to --Valid--.

Page 22, line 13, change "if" to --whether--.

Page 22, line 19, after "to register", insert --a--.

Page 22, line 20, change "persons" to --person--.

Page 22, line 24, after "notified" and before "." insert --and prompted to reenter the information--.

Page 23, line 1, after "person" insert --to database 70-- and change "if sponsoree" to --if the person listed--.

Page 23, line 4, after "step 726", insert --(Fig. 4C)--.

Page 23, line 7, after "and,", insert --if so,--.

Page 23, line 7, after "727B," insert --prompts him to--.

Page 23, line 9, change "728" to --727A--.

Page 23, line 16, change "if" to --whether--.

Page 23, line 17, change "if" to --whether--.

Page 23, line 21, change "relations" to --relationships--.

Page 23, line 22, change "732-734" to --733-734--.

Page 23, line 24, after "If" insert --,--.

Page 23, line 25, change "if" and to --whether--.

Page 24, line 3, after "the user", delete "to DSP 12".

Page 24, line 5, delete "Fig. 5A-B" and insert therefor --Figs. 5A-5C --.

Page 24, line 8, delete "NDS 10" and insert therefor --DSP 12--.

Page 24, line 9, after "processes", insert --an--.

Page 24, line 10, change "a Q-server" to --Q-watcher--.

Page 24, line 18, change "server" to --watcher--.

Page 24, line 19, after "e-mail", insert --,-- and delete "and".

Page 24, line 19, change "formcodes" to --formcode, and--.

Page 24, line 20, before "designated", insert --a--.

Page 24, line 27, change "if" to --whether--.

Page 25, line 1, after "other", insert --confirmed--.

Page 25, line 1, delete "with a CONFIRM".

Page 25, line 4, after "relationship", delete "and the" and insert --.--.

Page 25, line 5, delete "relationship is deleted from USER1's record in database 70."

Page 25, line 6, after "180" and before "." insert --(Fig. 5B)--.

Page 25, line 7, change "not" to --no--; and

line 10, change "is", second occurrence, to --is,--.

Page 25, line 10, after "other" insert --unconfirmed--.

Page 25, line 15, delete "pending" and insert therefor --unconfirmed--.

Page 25, line 15, after "relationships," and before ",", insert --without a CONFIRM or DENY--.

Page 25, line 20, change "if" to --whether--.

Page 25, line 21, after "If", insert ",".

Page 25, line 21, delete "the relationship is confirmed," and insert therefor --a CONFIRM response is sensed,--.

Page 25, line 24, change "relation" to --relationship--.

Page 25, line 24, delete "e-mail is sent to customer" and insert therefor --routine passes to step 180--.

Page 25, line 25, delete "service for manual processing at step 135".

Page 25, line 26, after "180" and before ",", insert --(Fig. 5B)--.

Page 26, line 3, delete "260", and insert therefor --185A. At step 185A, database server 45 determines whether the relationship between USER1 and USER2 was neither confirmed nor denied. If yes, the e-mail is forwarded to customer service. If not, the procedure continues to step 260 (Fig. 5C).--

Page 26, line 7, delete "190." and insert therefor --190-197B.--.

Page 26, line 8, delete "at step 195." and insert therefor --(see Fig. 3). When all of the relationships have been processed, at step 195A, database server 45 determines whether

the relationship between USER1 and USER2 was neither confirmed nor denied. If yes, the relationship is updated as CONFIRM (as in step 130), If not, the procedure continues to step 196.--.

Page 26, line 11, change "if" to --whether--.

Page 26, line 13, delete "USER2.E.DB.ANB.7" and insert therefor --USER2 E.DB.ANB.7--.

Page 26, line 22, after "USER1", insert --or listed additional relationships--.

Page 26, line 23, delete "If".

Page 26, line 24, delete "USER2 did not confirm the relationship at step 262," and insert therefor --Otherwise--..

Page 27, line 8, delete "NDS".

Page 27, line 9, delete "10" and insert therefor --DSP 12--.

Page 27, line 13, after "USER2", insert --(also referred to as "B")--.

Page 27, line 15, after "USER1" and before "," insert --(also referred to as "A")--.

Page 27, line 15, after "which", insert --was--.

Page 27, line 15, delete "USER2".

Page 27, line 16, change "a user" to --USER2--.

Page 27, line 17, change "another user" to --USER1--.

Page 27, line 18, change "a user" to --USER2--.

Page 27, line 19, change "another user" to --USER1--.

Page 27, line 22, after "Otherwise" insert --,--.

Page 27, line 24, after "message", insert --, E.CUST.1w/M.CUST.3,--

Page 27, line 25, after "service", delete ", E16,".

Page 28, line 1, delete "is (undefined)".

Page 28, line 1, after "message,", insert --E.DB.EDITREL.2,--

Page 28, line 2, delete "E13,".

Page 28, line 8, after "When", delete "a" and insert therefor --an active--.

Page 28, line 10, change "prohibit" to --prohibits--.

Page 28, line 11, after "another", insert --use--.

Page 28, line 13, change "if" to --whether--.

Page 28, line 13, delete "is to" and insert therefor --that has been listed by the user has been verified and should--.

Page 28, line 23, change "E.CUST.1, M.CUST.4" to --E.CUST.1w/M.CUST.4--.

Page 28, line 24, after "sent to", delete "the".

Page 28, line 25, delete "member of any other" and insert therefor --a--.

Page 28, line 25, delete "user" and insert therefor --user who had listed the new email address--.

Page 28, line 27, after "denied.", insert -- The routine ends at step 340.--

Page 29, delete lines 1 through 6.

Page 29, line 7, change "Web-site" to --WEB-SITE--.

Page 29, line 8, after "90" insert --(Fig. 18)--.

Page 29, line 9, change "web" to --Web--.

Page 29, line 12, delete ""fun and" and insert therefor --an "about" section.--.

Page 29, line 13, delete, "games" option.".

Page 30, line 6, after "102", insert --(Fig. 9A)--.

Page 30, line 7, change "with" to --within--.

Page 30, line 9, delete "CONTACTS" and insert therefor "RELATIONSHIPS".

Page 30, line 11, delete "contacts" and insert "relationships".

Page 30, line 11, delete "Fig. 9" and insert therefor -- Figs. 9A-9B --.

Page 30, line 12, change "web-site" to --Web site--.

Page 30, line 17, delete "worker" and insert therefor --employee--.

Page 30, line 19, after "last name", delete "and" and insert --,--.

Page 30, line 19, after "type", insert --,--.

Page 30, line 20, delete "which could be an "unspecified" or undefined type.".

Page 30, line 23, delete "(see step 602)." and insert therefor --.--.

Page 30, line 24, delete "the".

Page 30, line 25, after "procedure", delete ",".

Page 31, line 1, change "if" to --whether--.

Page 31, line 3, after "803A", insert --, and an e-mail is sent to USER2 inviting USER2 to join DSP 12 and confirm the relationship with USER1--.

Page 31, line 3, after "new record", delete "will be" and insert therefor --for USER2 is--.

Page 31, line 5, after "is known,", delete "but not an active member" and insert therefor --(i.e., an active, non-responder, pre-registered or denied member) and has no relationship history with USER1, then step 804A is executed, wherein an email is sent to USER2 inviting him to confirm the relationship to USER1 and USER1 is notified that this will occur.--

Page 31, line 6, delete entire line.

Page 31, line 7, delete "executed as above.".

Page 31, line 14, delete "information is pending." and insert therefor --relationship was confirmed.--.

Page 31, line 17, delete "if" and insert therefor --whether--.

Page 31, line 20, delete "will be" and insert therefor --is--.

Page 31, line 20, delete "then,".

Page 31, line 21, delete "will be" and insert --is--.

Page 31, line 22, change "806A" to "807A".

Page 31, line 22, after "and", delete ",".

Page 31, line 25, change "is" to --was--.

Page 31, line 26, after "listed", insert --by USER1--.

Page 31, line 27, delete "entering" and insert therefor --of--.

Page 31, line 27, delete "USER1 activates step 808A. At" and insert therefor --at--.

Page 32, line 1, after "808A", delete ",".

Page 32, line 4, change "if" to --whether--.

Page 32, line 5, after "type" insert --of a pending relationship already listed by USER1--.

Page 32, line 6, after "confirmation", delete "as in step 808." and insert therefor ".".

Page 32, line 6, delete "yes" and insert therefor --so--.

Page 32, delete line 7 entirely.

Page 32, line 8, after "notified" and before ".", insert --that the relationship type cannot be reclassified--.

Page 32, line 13, after "confirmation" and before ".", insert --by either USER1 or USER2--.

Page 32, line 13, after "confirmation by either USER1 or USER2" insert --In step 810, if USER1 has attempted to reclassify the relationship to the same relationship type that is pending USER1's confirmation, then in step 810A USER1 is notified that the relationship type has been confirmed and database 70 is updated accordingly. In step 811, if USER1 has attempted to reclassify the relationship to a different relationship type that is pending USER1's confirmation, then in step 811A USER1 is informed that USER1 may only confirm or deny the reclassification. In step 812, if USER1 has attempted to reclassify the relationship to the same relationship type that is pending USER2's confirmation, then in step 812A USER1 is informed that such an action cannot be taken while the reclassification is pending USER2's confirmation. In step 813, if USER 1 has attempted to reclassify the relationship to a different relationship type that is pending USER1's confirmation, then in step 813A USER1 is informed that such an action cannot be taken while the reclassification is pending USER2's confirmation.--

Page 32, line 21, delete "the", first occurrence, and insert therefor --a confirmed--.

Page 32, line 22, before "been", insert --previously--.

Page 32, line 22, change "(step 816)," to --(step 816) or--.

Page 32, line 23, after "or", insert --a pending relationship had been--.

Page 32, line 24, after "above" and before ".", insert --and an e-mail is sent to USER2 requesting that USER2 confirm the relationship and database 70 is updated accordingly.

Page 32, line 27, after "USER2" and before ".", insert --and cannot be relisted by USER1--.

Page 33, line 8, delete "Figs. 10A-10F" and insert therefor --Fig. 10A--.

Page 33, line 8, after "user" insert --, in this case a USER1,--.

Page 33, line 16, change "815" to --1815--.

Page 33, line 18, change "815A" to --1815A--.

Page 33, line 20, change "815" to --1815--.

Page 33, line 21, change "816" to --1816--.

Page 33, line 22, change "817" to --1817--.

Page 33, line 22, after "determines", change "if" to "whether".

Page 33, line 23, delete "the user" and insert therefor --USER1--.

Page 33, line 23, change "817" to --1817A--.

Page 33, line 25, change "818" to --1818--.

Page 33, line 26, after "with" insert --a--.

Page 33, line 26 after "USER2" insert --(whose relationship USER1 just denied)--.

Page 34, line 1, change "818A" to --1818A--.

Page 34, lines 2 and 3, change "819" to --1819--.

Page 34, line 4, change "or" to --nor--.

Page 34, line 5, change "are," to --are such other relationships,--.

Page 34, line 5, change "819A" to --1819A--.

Page 34, line 6, after "indicating", insert --other--.

Page 34, line 6, change "confirmed" to --unconfirmed--.

Page 34, line 7, change "819B" to --1819B--.

Page 34, line 9, delete "other unconfirmed" and insert therefor --no other--.

Page 34, line 9, after "relationships", insert --(pending or confirmed)--.

Page 34, line 12, change "10" to --10B-- and after "user" insert --, in this case a USER1,--.

Page 34, line 15, change "820" to --1820--.

Page 34, line 16, after "Get_All_Relationship_Types", and before ".", insert --and a notification of the relationship at step 1820A.--.

Page 34, line 16, change "821" to --1821--.

Page 34, line 17, change "if" to --whether--.

Page 34, line 19, delete "822 as" and insert therefor --1822 confirming the relationship type.--

Page 34, line 20, delete "described above".

Page 34, line 20, delete "A" and insert therefor --At step 1622A, a--.

Page 34, line 21, delete "same".

Page 34, line 21, delete "entered and" and insert therefor --confirmed.--

Page 34, line 22, delete "therefore the pending relationship was confirmed.".

Page 34, line 24, change "823", both occurrences, to --1823--.

Page 34, line 25, change "823A" to --1823A--.

Page 34, line 26, change "824" to --1824--.

Page 35, line 2, change "824B" to --1824B--.

Page 35, line 3, after "was" and before "," insert --classified--.

Page 35, line 5, change "824A" to --1824A--.

Page 35, line 6, change "USER2" to --USER2'S--.

Page 35, line 9, delete "57".

Page 35, line 10, delete "___" and insert therefor --10A--.

Page 35, line 11, after "830" insert --(See Fig. 10C)--.

Page 35, line 21, delete "818 and 819" and insert therefor --1818 and 1819-.

Page 36, line 7, after "45.", insert --If not, a display is shown of step 840A.--

Page 36, line 9, change "USERS" to --USER'S--.

Page 36, line 10, before "user" insert --a--.

Page 36, line 11, delete "delete"" and insert therefor --delete-- and after "types" insert --" button--.

Page 36, line 13, change "or" to --of--.

Page 36, line 17, after "clicks", insert --on--.

Page 36, line 26, delete "the".

Page 36, line 27, delete "which will process" and insert therefor --processes--.

Page 37, line 1, delete "reclassification" and insert therefor --request--.

Page 37, line 2, change "if" to --whether--.

Page 37, line 2, after "was" insert --in fact--.

Page 37, line 3, after "indicating the" insert --relationship type was confirmed--.

Page 37, line 4, delete "reclassification was not completed".

Page 37, line 6, change "displayed." to --displayed (step 862A).--.

Page 37, line 7, change "862" to --862A--.

Page 37, line 8, change "if" to --whether--.

Page 37, line 8, delete "originally" and insert therefor --last--.

Page 37, line 9, delete "USER1 who identified the logged-in user." and insert therefor --USER2.--.

Page 37, line 11, delete "USER1" and insert therefor --USER2--.

Page 37, line 11, delete "was defined." and insert therefor --has been reclassified.--.

Page 37, line 13, delete "USER1" and insert therefor --USER2--.

Page 37, line 13, delete "was" and insert --has been reclassified from--.

Page 37, line 14, delete "originally".

Page 37, line 15, delete "AND LISTED".

Page 37, line 17, delete "or listed".

Page 37, line 21, after "above", and before ".", insert --(see Fig. 10F)--.

Page 37, line 23, before "which", insert --in--.

Page 37, line 23, after "which", insert --database server 45--.

Page 37, line 23, delete "step 861" and insert --steps 861-863B--.

Page 37, delete line 24 entirely.

Page 37, line 25, delete "863A, and 863B".

Page 37, line 25, after "above" and before "." insert --(see Fig. 10F)--.

Page 37, line 25, delete "If the output is".

Page 37, delete line 26.

Page 38, delete lines 1 and 2.

Page 38, line 6, delete "NDS 10" and insert therefor --DSP 12--.

Page 38, line 8, delete "address," and insert therefor --address(es),--.

Page 38, line 20, delete "Fig. 12" and insert therefor --Figs. 12-13--.

Page 39, line 7, change "if" to --whether--.

Page 39, line 16, change "person_update_WP info" to --Person_Update_WP_Info--.

Page 39, line 17, change "if" to --whether--.

Page 39, line 22, change "if", first occurrence, to --whether--.

Page 39, line 23, delete "white pages record in".

Page 39, line 27, delete "change." and insert therefor --changes.--.

Pae 40, line 12, change "microfiche appendix" to --Microfiche Appendix--.

Page 41, line 2, change "relations" to --relationships--.

Page 41, line 15, change "user," to --user--.

Page 41, line 21, delete "on" and insert therefor -- in --.

Page 41, lines 25-26, delete "as each could be performed by searching abilities" and insert therefor --other searches could be performed--.

Page 42, line 1, after "search" insert --in the preferred embodiment--.

Page 42, line 6, after "error" and before ".", insert --and requested to try again--.

Page 42, line 10, after "If found" and before ",", insert --at step 1053--.

Page 42, line 11, change "1053A" to --1053B-.

Page 42, line 16, delete "listing." and insert therefor --later--.

Page 42, line 16, after "Further", insert --it is possible that--.

Page 42, line 21, change "1053B" to --1053A--;

Page 42, line 21, change "search results were" to --match was--; and

line 27, delete "any value is entered in last name" and insert therefor -- the entered last name is valid. --.

Page 42, line 27, delete "like in step 602.".

Page 43, line 9, delete "If the count is found to be one, step".

Page 43, delete line 10 entirely.

Page 43, line 11, delete "however" and insert therefor --Next,--.

Page 43, line 12, delete "the first part and last part" and insert therefor --all or a part--.

Page 43, line 17, delete "1053 A-B" and insert therefor --1053A-B--.

Page 43, line 18, delete "and 1058 A-C." and insert therefor --1058B and 1058C.--

Page 43, line 21, after "LOGIN" and before ",", insert --(if not already logged in)--.

Page 43, line 21, delete "in" and insert therefor --to--.

Page 43, line 25, delete "Figs. 14A-B)." and insert therefor --Fig. 12)--

Page 43, delete lines 26 and 27.

Page 44, delete lines 1 through 4.

Page 44, line 6, delete "of";

Page 44, line 10, change "member" and insert --member's--.

Page 44, line 14, change "skills" to --skill--.

Page 44, line 16, change "or" to --or,--.

Page 44, line 17, change "city," to --city--.

Page 44, line 17, after "that" insert --the--.

Page 44, line 19, delete "companies" and insert therefor --place of employment--.

Page 44, line 21, after "manner." insert --The user may access box 42 by first completing LOGIN or alternatively checking box 42 and then completing LOGIN. It should be apparent that, by design choice, only members are authorized to utilize the "connect me" process. A similar procedure can be used at the start of each application, e.g., network me. It also should be noted that the user could already be logged in when seeking to access this application. Thus, there is no need to login again.--

Page 45, line 3, after "all" insert --of--.

Page 45, line 6, after "occupation", delete "and", first occurrence, and insert therefor --or--.

Page 45, line 8, delete "for "hits"".

Page 45, line 11, after "(geographic)" insert --,--.

Page 45, line 11, delete "Person_Network_Hobby, (hobby)" and insert therefor --Person_Network_Hobby (hobby),--.

Page 45, line 13, after "(skills)" insert --,--.

Page 45, line 19, delete "executed" and insert therefor --executed to determine whether the search was by geography only or by geography and other criteria. If by geography only, the display at step 1024B is shown. Otherwise, the display at step 1024A is shown.--
Alternatively, instead of listing members by e-mail address, last name etc., it should be recognized that a "marketplace" could be designed which allows users to list products and services for sale, hire, rent etc., and to be searched by product type, services, etc. The marketplace could be limited to direct or indirect relationships.--

Page 45, line 21, delete "Fig. 16" and insert therefor -- Figs. 16A-16B --.

Page 46, line 2, change "it" to --It--.

Page 46, line 3, delete "too" and insert therefor -- to --.

Page 46, line 3, change "thisi" to -- this --.

Page 46, line 16, change "SRCH.22.EL" to --SRCH.SS.E1--.

Page 46, line 23, change "if" to --whether--.

Page 46, line 26, change "If so," to --If,--; and after "however," insert --a connection is found,--.

Page 46, line 27, change "if" to --whether--.

Page 46, line 27, after "is" insert --only--.

Page 47, line 2, delete "knows" and insert therefor --has a confirmed relationship with--.

Page 47, line 2, delete "by listing him".

Page 47, line 16, delete "knows" and insert therefor --is connected to--.

Page 47, line 21, delete "either".

Page 47, line 22, delete "sent" and insert therefor --displayed--.

Page 47, lines 23-24, change "cold fusion" to --COLD FUSION--.

Page 48, line 1, change "for" to --to--.

Page 48, line 1, delete "of the results" and insert therefor --a list of matching entries--.

Page 48, line 3, change "if" to --whether--.

Page 48, line 4, after "found" and before ".", insert --to the name on the result list that is selected--.

Page 48, line 4, change "1007B" to --1007--.

Page 48, line 9, delete "NDS 10" and insert --DSP 12--.

Page 48, line 14, delete "and" and insert --or--.

Page 48, lines 21 and 24, change "Parser_Resend_Password" to --Person_Resend_Password--.

Page 48, line 25, change "if" to --whether--.

Page 49, line 1, change "498A" to --479B--.

Page 49, line 1, change "478B," to --479B,--

Page 49, line 3, delete "for sending" and insert therefor --to send--.

Page 49, line 4, after "address.", insert --The user is notified at step 479A.--.

Page 49, line 4, delete "only".

Page 49, line 4, after "can" insert --only--.

Page 49, line 7, delete "member." and insert therefor --user--.

Page 49, line 8, delete "Again in" and insert therefor --In--.

Page 49, line 11, after "address" insert --is--.

Page 49, line 12, delete "cancelled" and insert therefor --a canceled--.

Page 49, line 13, delete "for" and insert therefor --assigned to--.

Page 49, line 14, delete "for" and insert therefor --assigned to--.

Page 49, line 16, delete "Resend_Password is" and insert therefor -- Person_Resend_ Password has been--.

Page 49, line 16, after "exceeded" insert --If this is the case, the user is informed accordingly. If the maximum number of requests is exceeded, the user may not request that the password be resent for a certain period of time.--

Page 49, line 17, change "Session Validation" to -- SESSION VALIDATION -- and center same.

Page 49, delete lines 18-26 and page 50, delete lines 1-17, and insert therefor the following:

> --   The communications protocol, http, used to carry information between the user and DSP 12, as discussed above, is "connectionless". In other words, the identity of the user does not persist as the user navigates from one screen to the next. As such, authentication cannot be implemented as it is with conventional client/server applications, wherein the user logs-in to the server once during a session and remains validated in the system until he logs-off. Accordingly, the present invention, in a preferred embodiment, uses a subsystem which uses routine, Session_ Validation whereby, upon verification of username and password (see LOGIN), a unique Session Identification (SID) is established for the user which is stored in a data table of DSP 12. (See steps 701-703; Fig. 4A) This SID is passed by DSP 12 to the user after each transaction with DSP 12, such that the user maintains his SID for each subsequent communication with DSP 12.
>
> In addition to the SID, the user also transmits his network address and browser type (See Fig. 1), which the DSP 12 compares with the SID. In cases wherein: (i) the SID is not found, (ii) the network address has changed, (iii) the browser type is altered, or (iv) the session has been inactive for an excessive amount of time, the request for LOGIN is considered invalid, and the user is required to LOGIN again. (See step 702; Fig. 4A).--

Page 50, line 20, change "APPENDIX MICROFICHE" to --Microfiche Appendix--.

Page 50, line 23, delete "resend-password (see Fig. 16) or person_get_rel (see Fig. " and insert therefor -- Person_Resend_Password (see Figs. 16A-16B) or Person_Get_Rel (See Figs. 4A-4C)--.

Page 50, line 24, delete "4)".

Page 50, line 27, change "microfiche appendix" to --Microfiche Appendix--.

IN THE CLAIMS:

    1.   (Amended) A networking database system comprising:

a communication port;

a web server connected to the communication port [having a first port operable to

        receive a first incoming e-mail and to transmit a first outgoing e-mail, and a

        second port, the web server having an output at the second port];

a database containing a plurality of records;

a database server connected to the database for operating on said database;

a database connectivity engine connected to the web server for preprocessing the

        output of the web server and connected to the database server;

a queue [server] <u>watcher</u> coupled to said database server for <u>queuing</u> [queing]

        outgoing e-mail<u>s</u>;

a mail server operatively connected to [said web server second port] <u>the</u>

        <u>communication port</u> to [read] <u>receive</u> incoming e-mail<u>s</u>, and connected to said

        queue [server] <u>watcher to transmit outgoing e-mail</u>; and

a parser connected to the mail server to process incoming e-mail<u>s</u> [messages] and

        <u>connected</u> to the database server;

wherein the database server is responsive to the parser processing to manipulate a record in

the database, and [the database further comprises a plurality of records,] selected ones of said

plurality of records [being] <u>are</u> linked to selected other ones of said plurality of records by a

confirmed defined relationship <u>or a denied defined relationship</u>.

    2.   (Amended) The system of claim 1 wherein [an] <u>a first</u> incoming e-mail

contains a formcode and the parser is operable to identify the formcode, wherein the database

server [is responding] responds to [an] the identified formcode to update or generate [a] records in said database.

Please add new claims 3-31 as follows:

3. The system of claim 1 further comprising a network coupled to said web server at said communication port operable to connect a first user to said web server.

4. The system of claim 3 wherein the network supports communications of said incoming and outgoing e-mails.

5. The system of claim 3 wherein said first incoming e-mail is associated with a first user and a first outgoing e-mail is associated with a second user and wherein the first incoming e-mail and first outgoing e-mail further comprise information regarding a first relationship between said first user and said second user.

6. The system of claim 5 wherein said plurality of records further comprises a first record and a second record corresponding to said first and second users, respectively, and wherein said database server operates on said first and second records to update said first relationship between said first record and said second record to one of a confirmed defined relationship and a denied defined relationship.

7. The system of claim 6 further comprising a third user on said network, wherein said database server updates said second record in response to an incoming e-mail and a formcode in an e-mail from said third user.

8. The system of claim 6 further comprising a third user on said network, wherein said database server updates said second record in response to an input from said third user at said communication port.

9.   The system of claim 6 wherein each of said plurality of records further includes a security code.

10.   The system of claim 9 further comprising an input corresponding to said second user, the input being a function of said security code, and wherein said input contains data corresponding to said second user.

11.   The system of claim 10 further comprising a third user on said network, wherein said input further comprises a second relationship between said second user and said third user and the database server is operable to transmit a second outgoing e-mail to said third user.

12.   The system of claim 11 wherein said plurality of records further comprises a third record corresponding to said third user, and wherein said second relationship is one of a confirmed defined relationship or a denied defined relationship and wherein said database stores said second relationship in said second and third records.

13.   The system of claim 1 wherein said plurality of records further comprise at least one of the group consisting of demographic data and relationship data.

14.   The system of claim 1 wherein said plurality of records further comprise a personal profile component wherein said personal profile component is modifiable by a user.

15.   A method for creating a networking database system having a communication port and a database for storing data in a plurality of records comprising:

(a)   receiving a first input at said communication port containing a first set of data corresponding to a first user, said first set of data including a relationship between said first user and a second user;

(b)   storing the first set of data in a first record of said database;

(c)   determining a first relationship between a first user and a second user from said first set of data;

(d)   transmitting a first e-mail to said second user, the first e-mail containing information that is a function of at least said first relationship;

(e)   creating a second record in said database corresponding to said second user; and

(f)   receiving a second input at said communication port from said second user in response to said first e-mail, wherein said second input contains status information corresponding to said first relationship.

16.   The method of claim 15 wherein step (b) further comprises updating the first record in response to said second input and step (f) further comprises storing said status in said first and second records.

17.   The method of claim 15 wherein step (f) further comprises receiving said status information as one of a confirmed relationship, a denied relationship and non-responsive input.

18.   The method of claim 15 wherein step (f) further comprises receiving an e-mail from said second user.

19.   The method of claim 18 further comprising receiving a third input at said communication port containing a second set of data corresponding to said second user, said second set of data including a second relationship between said second user and a third user, and storing said second set of data in said second record of the database.

20.   The method of claim 19 further comprising determining a second relationship between said second user and a third user from said second set of data.

21.   The method of claim 20 further comprising transmitting a second e-mail to said third user, the third e-mail containing information that is a function of said second relationship.

22.   The method of claim 21 further comprising establishing a third record in said database corresponding to the third user, said third record including said second relationship.

23.   The method of claim 15 wherein step (d) further comprises generating a security code corresponding to said second user, and transmitting said security code in said first e-mail.

24.   The method of claim 23 wherein said second input is a function of said security code and said method further comprises receiving a third input at said communication port.

25.   A networking database apparatus comprising;

means for communicating on a network having a communications port for receiving an input of data and transmitting an outgoing e-mail;

means for storing a first record and a second record in a database in response to a first data input from a first user, said first data input including information about a relationship between said first user and a second user, wherein said first and second records correspond to the first user and the second user, respectively;

means for transmitting a first e-mail to said second user in response to said determined relationship, the first e-mail being a function of said first relationship; and

means for receiving a second data input from said second user in response to said first e-mail, wherein said second data input comprises status information about said first relationship.

26.   The apparatus of claim 25 further comprising means for updating said status information in said first and second records in response to said second data input from the second user wherein said status information is one of a confirmed relationship and a denied relationship.

27.   The apparatus of claim 26 wherein the second data input further comprises an e-mail from said second user.

28.   The apparatus of claim 26 further comprising a web site and wherein said second data input comprises data entered at the web site by the second user.

29.   The apparatus of claim 25 further comprising means for generating a security code associated with said second user, wherein said first e-mail further includes the security code.

30.   The apparatus of claim 29 further comprising means for updating said second record in response to said second data input from said second user, said second data input being a function of said security code.

31.   The apparatus of claim 30 wherein said second data input further comprises information about a second relationship between said second user and a third user, and further comprising means for transmitting a second e-mail to said third user in response to said second data input.

REMARKS

This amendment includes changes to the specification to correct grammatical and typographical errors, all of which are obvious from a review of the specification in combination with the figures as filed. The amendment also corrects typographical errors and adds reference numerals to figure numbers 1, 2, 3, 4A, 4B, 4C, 5A, 5B, 5C, 7, 9A, 9B, 10A, 10B, 10D, 10F, 11, 12, 14A, 14B, 15, 16A, 16B, and 17, which are obvious from the description in the specification. The corrections to the drawings are shown in red ink on the drawing sheets attached to the Letter To Official Draftsman accompanying this response. Newly added Fig. 18 shows a home page of a Web site 90 according to the present invention.

The remainder of the changes to the specification and drawings conform the description more clearly to a preferred embodiment of the source code for the computer program embodying the claimed subject matter submitted with the application at the time of filing.

Claim 1 is amended herein to omit double claiming of the "plurality of records", to correct a misspelling of the word "queuing", and to omit unnecesary language. Claim 2 is amended to omit double claiming of the "incoming e-mail." Additional claims 3-31 have also been added. Consideration and allowance of this application are respectfully requested.

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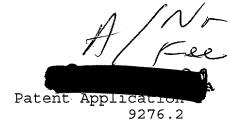
METHOD AND APPARATUS FOR CONSTRUCTING A NETWORKING DATABASE AND SYSTEM

MICROFICHE APPENDIX

A Microfiche Appendix containing computer source code is attached. The Microfiche Appendix comprises 7 sheets of microfiche having 607 frames, including one title frame.

The Microfiche appendix contains material which is subject to copyright protection. The copyright owner has no objection to the reproduction of such material, as it appears in the files of the Patent and Trademark Office, but otherwise reserves all copyright rights whatsoever.

FIELD OF THE INVENTION

The present invention is directed to a networking database having a plurality of records corresponding to individuals, more particularly to a networking database in which the records of registered individuals are linked by defined relationships to a record of one or more other individuals.

BACKGROUND OF THE INVENTION

The concept of networking, that is, expanding one's knowledge of other people for a personal or professional advantage, is as old as politics. The advance of technology has made it easier for a person to contact another, but it still requires person-to-person contact.

With the remarkable spread of the Internet and the World Wide Web ("the Web") (collectively, the "Internet"), in recent years, electronic mail, or e-mail systems, have become well-known

to the public. E-mail systems are used to transmit information among users, wherein each "user" is identified by a unique e-mail address.

Commonly, an e-mail address is assigned to each employee of large corporations or organizations for communication with colleagues or clients, as well as for internal communications between co-workers. The same is true of universities which often assign an e-mail address to each of their students, professors, and staff. Outside of these relationships, one may also obtain an e-mail address using on-line services, such as America Online and CompuServe, or more specialized e-mail providers, such as MCI Mail, and other Internet-access providers. Needless to say, to communicate by e-mail, one generally must first know the intended recipient's address. E-mail address directories may or may not be available to the general public.

Obtaining e-mail service from a private company is often expensive and, in many cases, the services provided are more expansive than a customer would like to endure. Thus, the service can be cumbersome and hard to comprehend for the user.

Recently, however, some firms have started e-mail systems that are free to consumers. For example, Juno Online Services offers an e-mail service wherein a user is assigned an e-mail address in exchange for a profile describing themselves and their tastes. The Juno system provides software that is loaded onto the hard drive of the user's computer system to be used and provides the user with the ability to read incoming e-mail messages and send e-mail messages. The Juno system, however,

does not allow the user to send or receive attachments such as computer records containing graphics or spreadsheets along with an incoming or outgoing e-mail message. Moreover, Juno, in exchange for using the system, sends advertisements to the user based upon the personal information requested, which includes hobbies, traits, education, occupation, etc. This potentially becomes a significant nuisance. In addition, the system is generally more slow than other systems because of the added text from the advertisements. This is problematic, especially, when the user is anxiously awaiting an e-mail message.

These e-mail systems are useful for e-mail advertising and marketing. They generate money based on subscription cost or by advertising to the user. However, they are otherwise limited in their usefulness to the users of the system.

OBJECT AND SUMMARY OF THE INVENTION

As realized by the present applicants, these prior art systems do not provide any mechanism whereby one user can take advantage of the database comprised of the authorized users of e-mail systems for personal and/or professional gain. As also realized by the inventors, if an individual can register with the database, for example, by providing professional and personal data, and perhaps other selected criteria common to all (or significant numbers of the users), the user consequently can be linked to a plurality of other such individuals who have similarly provided information based on defined linking relationships.

It is, therefore, an object of the present invention to provide a networking database in which a plurality of individuals register and become respectively linked with one or more other registered individuals by defined relationships.

5   It is another object to provide a method of constructing such a networking database.

It is yet another object to allow a user to perform a search using the database and the defined relationships in order to determine specific information about a registered user.

10   The present invention is thus broadly directed to a networking database and a method of constructing a networking database. The invention also relates to applications of the networking database in commercial enterprise.

In one embodiment, the method of the present invention is 15 directed to constructing a networking database by having a first user sponsor a second user using a first defined relationship, wherein the second user confirms the sponsored defined relationship, and in turn, sponsors a third user using a first (or a different) defined relationship. The confirmation of a 20 defined relationship renders the first and second users members of the database. The third user, upon sponsoring a fourth user and confirming the proposed defined relationship with the second user, also is in the database. Thus, a link is established between the first and fourth users, who it is assumed do not know 25 each other, though the second and third users, through a chain of three defined relationships. In this manner, by each sponsored user in turn sponsoring one or more other users, the database

grows in size, arithmetically, geometrically, or exponentially as the case may be.

In a preferred embodiment, the method of constructing the database concerns issuing an e-mail from a database service provider to an individual. The individual is invited to respond to the delivered e-mail by providing selected information. The selected information may include, for example, a name and an e-mail address of a second individual that the first individual proposes to sponsor for membership in the database, and perhaps selected information about the first individual. The first individual preferably returns the selected information by e-mail to the database service provider. The database service provider scans the incoming e-mail from the first individual, extracts from the e-mail message, the information concerning the second individual, and then generates and transmits to the second individual an e-mail message inviting the second individual to join the database.

The second individual is thus invited to respond by providing selected information regarding the second individual, and in addition, providing information about a third individual. The information about the third individual may include, for example, the name, an e-mail address, and perhaps other information. In the case of a second individual, the second individual is also invited to confirm the relationship between the first individual and the second individual. The second individual may confirm or deny the relationship with the first

individual. In addition, the second individual may modify the relationship type as proposed by the first individual.

In the case that the second individual confirms the relationship of the first individual, this confirmation creates a defined relationship between the first and second individuals. This information is stored in the database, in records respectively associated with the first and second individuals. Similarly, if the third individual confirms or denies a relationship with the second individual, this information also is stored in the relationship database. In the event that each individual has at least one defined relationship, that individual becomes a full member of the database and satisfied certain preselected criteria. A full number is also known as an "active" member. Importantly, in this embodiment, the messaging is entirely electronic, that is, by e-mail. It is thus automatic and a database can be quickly constructed.

In the foregoing manner, numerous individuals can become members of the database, each member having a defined relationship to at least one other member in the database which is a confirmed relationship of one sort or another.

In addition to the e-mail communication system for joining the database, individuals also may be able to join the database by accessing a web-site of the database service provider on the Internet. This is done in a conventional manner by accessing the web-site through an Internet service provider provider. Once the user has logged into the web-site, he can input certain information and sponsor other individuals to become members,

thereby beginning the registration process. Each individual that is a full member will have the opportunity to provide additional information regarding personal characteristics. This information also becomes part of the database associated with the individual. This information is preferably input via, and thus can be edited, via, the home page of the database service provider.

The first individual sponsoring a second individual, via the web-site, causes an e-mail message to be automatically generated and delivered to the second individual. This e-mail message prompts the second individual to respond by e-mail in the manner as previously described. The second individual may respond by e-mail as previously described, or alternatively, may access the web-site to find out more information regarding the database service provider, and proceed with the registration process through the web-site instead of the e-mail communications technique. Similarly, a second user initially contacted by an e-mail message can respond via the web-site.

In this way, the database can become constructed automatically, based on information which is entered electronically. Moreover, the growth of the database can become exponential as more and more members sign up additional members who in turn sign up an additional number of members. Thus, it is not inconceivable that the database can contain hundreds of thousands, if not millions of individuals, each having a record in a database, in which the individual provides selected personal information. The files are password protected for security and privacy reasons.

The database, thus constructed, contains defined
relationships between different pairs (or groups) of individuals.
As noted, these pairs of individuals can be linked or
interconnected by chains of defined relationships so that one
individual can access the database and, through one or more
defined relationships, locate another individual that is also a
member of the database by some characteristic, that is
information that was input into the database. Although the
searching individual may not personally know the individual that
is the object of the search, the searching individual has a
defined relationship with someone, who has a defined relationship
with someone, who has a defined relationship with someone etc.
who has and finally the object individual can be connected
through this networking to the searching individual.

As appreciated by the inventors, the basic concept of the
networking database, having defined relationships between
individuals, is a unique application of the theory that everyone
is linked to everyone else on the planet through a maximum of six
defined relationships.

Although the principal invention concerns the use of e-mail
and the internet based on ease of communications and automatic
processing, it should be understood that alternate messaging
forms could be used, for example, telephone numbers whereby
information could be input by touchtone keypads.

The networking database of the present invention has
applications for searching in terms of finding other individuals
in the database, finding a connection to other users in the

database, and finding other individuals in the database having particular professional or personal characteristics or features that are of interest to another member.

BRIEF DESCRIPTION OF THE DRAWINGS

Further features of the invention, its nature, and various advantages will be more apparent from the accompanying drawings, and the following detailed description in which like reference numerals refer to like elements and in which:

Fig. 1 is a block diagram of a networking database system (NDS) in accordance with a preferred embodiment of the present invention;

Fig. 2 is a flow chart illustrating routine, Become_A_Member, in accordance with the NDS of Fig. 1;

Fig. 3 is a flow chart showing routine, USER1_Names_USER2 using the NDS of Fig. 1;

Figs. 4A, 4B and 4C are a flow chart illustrating routine LOGIN in accordance with the NDS of Fig. 1;

Figs. 5A, 5B and 5C are a flow chart showing the USER2_Responds routine of the NDS of the present invention;

Fig. 6 is a functional flow diagram showing the process, USER2 Responds to Relationship Type Confirm Request, using the NDS of Fig. 1;

Fig. 7 is a flow chart illustrating routine, USER1 Responds to a Request to Verify a New E-mail Address, in accordance with the NDS of Fig. 1;

Fig. 8 is a functional flow diagram showing the Web-site Services routine of the NDS in Fig. 1;

Fig. 9 is a flow chart illustrating the process, Add New Relationship to a personal profile of the present invention. [using the NDS of Fig. 1];

Figs. 10-___ are flow charts showing the process for editing the personal profile of Fig. 9;

Fig. 11 is an illustration of the personal profile edit screen of the present invention;

Fig. 12 is a functional flow diagram showing a method for editing the white pages using the screen of Fig. 11;

Fig. 13 is a flow chart illustrating a method for canceling a membership using the screen of Fig. 9;

Figs. 14A and 14B are a flow chart showing a first application using the NDS of Fig. 1;

Fig. 15 is a functional flow diagram showing a second application using the NDS of Fig. 1;

Fig. 16 is a flow chart illustrating a third application using the NDS of Fig. 1; and

Fig. 17 is a flow chart showing a fourth application using the NDS of Fig. 1.

DETAILED DESCRIPTION OF THE DRAWINGS

Referring to Fig. 1, there is generally shown a networking database system (NDS) 10 in accordance with the present invention. The NDS 10 includes a plurality of computers 14, each of which is coupled to a network 11, and, in turn, to a database service provider (DSP) 12. Each computer 14, of which one is shown in some detail and two others are represented in block form, is typically a personal computer, such as a Windows-based

workstation, having a memory 24 containing communications

software 27 and a modem 20. Communications software 27 may be

any software suitable for telecommunications, and is preferably

browser or e-mail software. Modem 20 is used with communications

5   software 27 for communication over network 11 with a DSP 12, more

particularly a web server 35 of DSP 12.

          Web server 35 is typically a programmed computer, more

specifically one which supports a HyperText Transfer Protocol

(http), that handles requests for records, documents and other

10   services, and transmits such information over network 11.

Network 11 is, for example, the Internet. Many suitable software

programs for web server 35 exist, including Netscape, Apache,

Microsoft IIS, and O'Reilly.

          Each computer 14 also has an input device 21 such as a

15   keyboard and/or mouse and a display 23 (monitor) for

communication with a user. It should be understood that computer

14 also may be those commercial devices known as "web-TV" boxes,

as are currently available from Phillips Electronics, Magnavox

and Sony Corporation or Network Computes as provided by Oracle

20   and Microsoft. It also should be understood that hundreds of

thousands, if not millions, of computers 14 may be coupled to

network 11, and thus to DSP 12, as will become more apparent in

the following discussion.

          DSP 12, in addition to web server 35, includes a database

25   connectivity engine 60, preferably COLD FUSION available from

Allaire Corporation, connected to web server 35 for pre-

processing an output from web server 35. The database

connectivity engine 60 is hereinafter also referred to as COLD

FUSION 60. COLD FUSION 60 is a specific server side scripting

language product which allows otherwise static information to be

created dynamically by providing an interface between web server

5   35 and a database server 45 using the Open Database Connectivity

(ODBC) protocol. ODBC is well-known in the art and therefore

will not be further discussed. Other similar server side

scripting products could be used, such as Web Objects and

Microsoft's IEC technology.

10   Database server 45 is generally configured as an SQL

database, using software programming such as that available from

Oracle, Informix, Microsoft, or Sybase, and is operable to

transmit and receive information between COLD FUSION 60 and a

database 70. Database 70 is a typical storage medium as is well-

15   known, more specifically database 70 is a conventional relational

database.

Database server 45 also has an output which is coupled to a

Q-server 40, which polls database 70, and transmits messages in

response to activity in database server 45, e.g., updating data

20   records, to an input of a mail server 55.

Mail server 55 is a conventional device that reads text

messages inbound on network 11, such as electronic mail (e-mail),

that is communicated to web server 35 and sends the text message

outbound on network 11. Any method for sending and receiving e-

25   mail may be used. For example, for sending e-mail the well-known

Simple Mail Transfer Protocol (SMTP), and a standard for reading

e-mail, such as the well known Post Office Protocol (POP), are

programmed into mail server 55, in what is now a conventional

manner and therefore, will not be described in further detail.

A parser 50 is connected to an output of mail server 55.

Parser 50 is responsible for processing e-mail messages which

arrive at mail server 55. Specifically, parser 50 determines

which routine or routines should be called in database server 45

to process the received message, as will be discussed later. It

is possible, however, that the parser is unable to determine this

information from the e-mail message, for example, because of

faulty transmission between computer 14 and mail server 55.

Therefore, parser 50 is provided with an error subroutine which

is activated in the event an error is determined. At this point,

the e-mail is returned to the sender, delivered to customer

service, or queued to database server 45 for transmission of an

error message to the user.

Details of an embodiment of a parser 50, COLD FUSION 60, Q-

server 40, and database server 45 will be described below with

reference to a preferred embodiment of a process of constructing

a networking database in accordance with the present invention.

<u>BECOME A MEMBER</u>

A preferred method of constructing a networking database

includes adding records for individuals to the database 70 and

establishing one or more defined relationships between the

records for selected ones of the individuals, and will now be

described.

For convenience, references in the following discussion to

individuals, users and persons should be construed synonymously,

and references to an individual in the context of database 70 should be understood to mean a record (or group of records) associated with the individual. It also should be recognized that the use of underscoring to connect together words also serves as a cross reference to the flow charts and an exemplary software routine in the microfiche appendix, and the use of periods to connect together letter-number combinations associated with e-mail text messages and user displays.

There are two preferred methods of becoming a member. The first is by communication with web server 35, more conventionally understood as an interactive communication with the "web-site" 90 of the DSP 12 over Internet network 11. The second is by e-mail communication with DSP 12 in response to an e-mail message originated from mail server 55. These are discussed in turn.

Referring to Fig. 2, routine Become_A_Member (BAM) is illustrated. BAM is executed to allow a user to become a "member" of DSP 12. The user, through computer 14, accesses web-site 90 (see Fig. 8), and is required to "click" on box 502, which initiates routine BAM at step 600.

In step 601, a display screen of information is shown to the user, who in this context and others that follow is referred to as USER1, on display 23. It is to be understood that USER1 may be any user of DSP 12. Using input device 21, USER1 is required to enter specified personal information, preferably at least a last name and a valid e-mail address. It should also be understood that currently multiple users cannot use the same e-mail address and still have different records in database 70.

This could be changed by suitable variation in programming that will allow it. A particular user can have multiple e-mail addresses and map to the same record in the database. It should also be understood that USER1 also may add a first name as well

5   as other information as is discussed herein. However, this other information is not required in this routine as a design choice.

At step 602, the routine determines whether a valid e-mail address and last name have been entered, by applying validation rules 602A. Typically, a valid e-mail address contains a string

10   of text characters followed by an "@" symbol, followed by a second string of text characters, followed by a ".", and then a third string of text characters. For example, a@b.c would be identified as a valid address. Other e-mail address formats may be used. If step 602 determines that no valid address or last

15   name (either one) was input by USER1 at step 601, then step 603 is executed. If on the other hand the validation requirements are met, the routine advances to step 604 where a routine Person_Become_A_Member is initiated by COLD FUSION 60, and executed in database 70. Then, USER1 may proceed to become a

20   member.

The Person_Become_A_Member routine 604 determines if the entered e-mail address is in the database 70. In step 605, database server 45 determines if the e-mail address belongs to one of an "active", "pre-registered", "revoked" or "cancelled"

25   member, all of which types of members will be discussed below. A cancelled member is an individual whose information had been lured into the database 70 and was an actual member, but was

removed from being a member in the database 70, voluntarily or by revocation, as will be described. A "revoked" user is defined as a user who has fulfilled all the sponsorship and registration requirements (see Fig. 4A-4C), but has his privileges

5   involuntarily removed from the database 70 for misuse.

If the e-mail address is new, then steps 611 and 612 are executed, thereby sending an e-mail message, containing a password to USER1 at the user-given e-mail address input at step 601, and also thanking USER1 for entering at web server 35. A

10   unique password is assigned to each user that becomes known to the database 70 to restrict unwanted users and allow known users to confirm their identity, that is users who have not registered with DSP 12. Each password stored in database 70 corresponds to a known user (Fig. 1). A password may be a string of numbers or

15   letters or a combination of both. It should be noted that sending a password to the e-mail address entered in step 601 insures that the e-mail address is only sent to the user, thus, minimizing the likelihood of misuse or fraud.

If, on the other hand, at step 605, it is determined that

20   the e-mail address is not new, then step 606 is invoked. At step 606, the database 70 is queried to determine if the e-mail address is associated with a user that is a "non-responder" (such a user is also referred to as pre-registered). If it is, step 607 is executed. At step 607, a display, H.BAM.FORM.SS.E2,

25   delivered to USER1 informing the user that the e-mail address is associated with a non-responder. If instead the e-mail address input by USER1 is not for a non-responder, then step 608 is

executed in which the database 70 is queried to determine if the

e-mail address is for a user that was or is revoked. If the user

is revoked, then step 609 is initiated. Otherwise, step 610 is

initiated. Step 609 displays a screen H.BAM.FORM.SS.E3. Step

610 invokes a screen at display 21, H.BAM.FORM.SS.E4 that

indicates to USER1 that the e-mail address entered is for an

active member. An active member is one who has a current

registration record in database 70 and has met the requirements

for membership, i.e., the user has listed his demographic

information with DSP 12 and has listed a relationship with at

least one other person with DSP 12 and, if necessary, has

responded to his sponsorship (i.e., having been identified to the

database by a "USER1").

Typically, the routine depicted in Fig. 2 is used by a user

that unilaterally desires to become a member of database 70.

USER1 NAMES USER2

In a second technique to become a member, generally, USER1,

also identified as "A" in the drawings and the routines of the

microfiche appendix, for convenience, sends an e-mail message

from its computer 14 to database service provider 12 which is

received by mail server 55. See Fig. 3. It is assumed that the

e-mail message identifies a USER2 (also referred to as "B" in the

drawings and the routines of the microfiche appendix, for

convenience) and thus, contains a formcode recognizable by parser

50 as will be explained. The inbound e-mail is processed by

parser 50, which searches for any formcodes in the e-mail. If

there are, then parser 50 queries the database server 45 to

discover precisely who is the message sender. Parser 50 then processes the e-mail in view of the formcode and what information may be listed in database 70, and if appropriate creates a suitable record in database 70 for USER2. For example, if a record for USER2 already exists, a second such record will not be created. Referring now to Fig. 3, this is shown outlining both techniques. However, here the discussion will be directed to sponsoring a member.

The DSP 12 determines if USER2 is a valid candidate for a relationship with USER1, at step 400. In other words, it is determined if: (i) USER1 is USER2 (see step 805; Fig. 9A as discussed elsewhere); (ii) USER2 has a valid e-mail address (see step 602 as discussed elsewhere); (iii) USER2 is a denied member; (iv) USER2 is a canceled member; or (v) USER2 is a revoked member.

At step 401, it is determined if the relationship between USER1 and USER2 is new.

At step 402, it is determined by database server 45 if a relationship already exists between USER1 and USER2. The relationship may be pending (see steps 806-809), confirmed (see steps 814-815), or denied (see steps 818-819).

It should be evident that generally the routine outlined in Personal Profile Add Contacts is similar to that used in the present routine; thus many of the steps are repeated and not discussed further.

LOGIN/COMPLETE REGISTRATION/ALERTS

Once USER1 has been identified to DSP 12, a routine Session_Validation, in database 45, is executed to authenticate all transactions that are performed between the user and DSP 12. The user, at LOGIN, for example, is required to identify himself to DSP 12, by entering a PASSWORD and an e-mail address, each time he uses DSP 12. At the time of identification, routine Session_Validation assignes "session" information which indicates the identity of the user. For each transaction between the user and DSP 12, the routine insures that the user is, indeed, the person previously identified. It should be appreciated that, by authenticating each communication preferred by a registered user in DSP 12, the privacy of each member, who enters personal and professional information into database 70, is maximized. Then USER1 must undergo a LOGIN procedure to register and advance to the next stage of membership.

Referring to Fig. 4, a flow chart is shown indicating the LOGIN program. Each user must undergo a LOGIN procedure to register and advance to the next stage of membership after he has been recognized by database 70. LOGIN allows a user to continue the registration process previously described in connection with Figs. 2 and 3, update or change the user's personal profile (See Figs. ___), or use the web-site 90 services available to registered members of DSP 12 (See Fig. 8).

In a preferred embodiment, the execution of Session Validation occurs at the web-site 90 (see Fig. 8) and is required each time a member uses the "personal profile manager", "network

me" or "connect me" services, all of which will be discussed herein in connection with NDS 10.

In step 704, LOGIN is invoked. In this context, the user may be a USER1 or a USER2. The user who is "logged-in" is required to enter a "username", usually the e-mail address of the user which was previously stored in database 70. It is possible, however, that username include the last name, first name, or another name (alias) chosen by the user. In addition to a username, the logged-in user must also provide the password which was previously generated by database server 45 (see Figs. 2 and 3).

The database server 45 then executes step 705 to determine if the username is in a proper format, as in step 602. If not, then step 706 is invoked, which indicates to the user that the input is invalid. However, if the e-mail address is found to be valid, then steps 707 and 708 are initiated to verify that the e-mail address is found in the database 70 and has not been revoked. If the e-mail is not "found and not revoked", then step 709 is executed to determine if the e-mail address is that of a revoked member. This determines whether the e-mail address assigned to the logged-in user has been "revoked" by DSP 12 due to improper or unauthorized use of DSP 12 by the logged-in user, as described herein. If the e-mail address is that of a revoked member, step 710 is executed and a suitable message indicating the same is displayed to the logged-in user. Otherwise, it is determined that the username is not found and step 714 is

executed. Again, a suitable message to the logged-in user is displayed.

If at step 708, the output is yes, then PASSWORD is checked against what is listed in database 70 at step 711. If a match is found, that is the PASSWORD is valid, then step 712 is executed. If not, however, step 713 is called, indicating to the logged-in user that the input is an invalid password.

In step 712, database server 45 determines whether the logged-in user must complete his registration with DSP 12 by providing certain requested information. If so, the logged-in user is asked to provide selected information, more specifically, personal or professional information including, among other things, one or more of the following: geographic location, occupation, and gender. At this stage, steps 716-720A are executed to complete the registration process.

At step 716, COLD FUSION 60 invokes the database to perform a series of routines that are necessary for cold fusion to present screen 718. For example, a routine Person_Get_Pre_Registration_Info is called to get information already entered for the user, a routine Region_G_Get_All is called to get a list of allowable geographic information about the user information, and a routine Occupation_G_Get_All is called to get a list of allowable information about the user for further example occupation information. At step 718, the registration screen is presented enabling the logged-in user to complete registration.

When complete, at step 719, the input data is examined for valid input. If invalid information is found, an appropriate message is displayed to the logged-in user who is prompted to re-enter valid information. The valid entries are accepted and processed at step 720 by COLD FUSION 60 to be stored in suitable fields of the logged-in user's record in database 70. The input data is sorted into the record for the user in database 70 by routine Person_Update_Pre_Registration_Info which updates the registration record in database 70.

At step 717, the database server 45 determines information about the user's relationships. More specifically, routine Person_Get_Relationship's_Sponsor_Count is executed to determine if the relationship requirement is met.

The routine proceeds to step 721 where COUNT, the number of total relationships initiated or declared by the member, whether confirmed, denied or non-response, is evaluated.

If the COUNT at step 721 is zero, then steps 722-725 are invoked which prompt the logged-in user to add new relationships. In other words, the user is prompted to register different persons with DSP 12, for example, a friend, relative, or co-worker. If the new relationship information is not valid as determined at step 723, that is an invalid name or an invalid e-mail address for the person is input, as in step 602, then at step 725 the logged-in user is notified. If the information is valid, then at step 724 the routine Person_Add_New_Relationship is executed, which adds the new relationship to the record for the logged-in user, updates the record in database 70 with the

information and adds a new person if sponsoree is not already in the system. This is also the starting point of the routine USER1_Names_USER2 as described above in connection with Fig. 3.

If the COUNT at step 721 is not zero, step 726 is executed to refresh the session information from step 707. As a result, at step 727, COLD FUSION 60 evaluates whether this is a user's second login and, in steps 727A and 727B, add more information about himself for storage in database 70. The additional information may appear on a questionnaire screen at step 728 prompting the user to input a plurality of demographic information, such as age. Afterwards, or if the user does not elect to enter such information, the routine passes to step 730, wherein COLD FUSION 60 coupled with database server 45, using routine Person_Get_Relationship_Status, determines the state of the relationships between the logged-in user and others. In this regard, at step 731, it is determined if any pending relationships or if no relationships exist with the logged-in user. If the answer is no to both, then the logged-in user continues to use other areas of DSP 12. If the answer is yes, however, then COLD FUSION 60 determines at step 732 whether no relationships exist or whether any of the relations need to be confirmed or denied at steps 732-734. If there are no relationships, step 734 is executed indicating that no relationships exist. If on the other hand, pending relationships do exist, COLD FUSION 60 determines if there is any new information to process at step 735. If there is not, then the logged-in user may move to another area of DSP 12. However, if

there is, the database server 45 processes all incoming

information and updates the pending relationships at step 736

before returning the user to DSP 12 to continue use of DSP 12.

<center>USER2 RESPONDS</center>

Referring now to Fig. 5A-B, a flow chart is shown

illustrating the routine of parser 50 when an e-mail response

arrives at mail server 55 from a USER2, wherein USER2 was

identified to NDS 10 by a given USER1. At this stage, parser 50

processes e-mail from USER2 in response to a formcode which was

previously generated by a Q-server 40 when USER2 originally was

sent a message. The formcode contains information which allows

parser 50 to determine what type of message arrived at mail

server 55. Any inbound message to mail server 55 determined to

have an unidentifiable, unknown or duplicate formcode is

forwarded to a customer service person for manual processing.

In steps 100 and 101, mail server 55 receives an e-mail

response from USER2 in response to an initial e-mail sent by Q-

server 40, in the routine USER1_names_USER2 previously discussed.

Parser 50 parses the e-mail and sees the formcodes, reacts to

designated formcode from the e-mail message as discussed above.

Procedure Process_Relationship_Response is initiated at step 105

to determine and update, as appropriate, the status of the

relationship between USER1 and USER2.

At step 140, if a DENY response to a proposed relationship

is sensed, then database server 45 updates database 70 in step

145, indicating that USER2 has denied a relationship with the

given USER1. In this case, database server 45 verifies if the

given USER1 has any other relationships with a CONFIRM at step 150. If so, then step 150A is executed and an e-mail message E.DB.BRESP.2 is initiated by parser 50 to the given USER1, indicating that USER2 has denied the relationship and the relationship is deleted from USER1's record in database 70. The routine, thereafter, passes to step 180.

If the answer to step 150 is not, however, in step 155, the database server 45 searches for other unconfirmed relationships between USER1 and another user without a CONFIRM or a DENY. If the answer is yes, that is if there are other relationships without a CONFIRM or DENY, then step 165 is executed. At step 165, an e-mail message E.DB.BRESP.3 is sent to the USER1 indicating that USER2 has denied the relationship, but that other unconfirmed relationships are pending. If at step 155 it is determined that USER1 has no other pending relationships, then at step 170 an e-mail message E.DB.BRESP.4 is sent to USER1 indicating this fact, and prompting USER1 to provide new relationship information.

Referring again to step 140, if the relationship is not denied, step 125 is executed to determine if the relationship was confirmed. If at step 125 the relationship is confirmed, then at step 130, the relationship of USER1 to USER2 is confirmed, and the database records for USER1 and USER2 are accordingly updated. If the relation is not confirmed, the e-mail is sent to customer service for manual processing at step 135.

In step 180, database server 45 executes a routine Process_New_Relationship. In this routine, at step 185, database

server 45 determines the existence of any new relationships being proposed by USER2 in the e-mail message. If none exist, the procedure continues to step 260. If, on the other hand, the answer is yes, then parser 50 creates a list of all new relationships listed by USER2. In this context, the USER2 is redefined as a given USER1 and the users identified in USER2's e-mail are redefined as USER2(s), by executing steps 190. This is similar to USER1_names_USER2 at step 195. When the output of step 196 is no, indicating that no errors have occurred in the steps 190 and 195, step 260 is executed. If the answer at step 196 is yes, then step 197 is invoked to determine if USER2 has met the relationship requirements. If so, step 197A is executed and parser 50 sends USER2.E.DB.ANB.7 indicating only that the errors are encountered. If not, however, step 197B is executed, noting that USER2 has not fulfilled all the requirements for membership. After steps 197A-B, step 260 is invoked.

Step 260 updates the status of USER2 in database 70. In step 261, it is determined whether USER2 is a non-responder or deny-responder. If not, then no update is performed and the routine is terminated. However, in the event that USER2 is a non-responder or deny-responder, step 262 is executed. In step 262, if USER2 has confirmed his relationship with USER1, step 263 is invoked to update USER2 to a "pre-registered" status. If USER2 did not confirm the relationship at step 262, USER2's status is updated to "deny-responder" in step 264. After steps 263 and 264, the routine stops.

As it will be understood, by the foregoing processes, a very large number of users can become established in the database 70 with defined relationships to selected other users, and in which other users confirm the validity of the defined relationship and perhaps of the type of relationship. In this way, a networking database is established, verified and confirmed. As will be discussed, a registered user can thus access the database and determine a chain of overlapping confirmed relationships in NDS 10 with any other confirmed registered user that is part of the chain.

USER2 RESPONDS TO RELATIONSHIP TYPE CONFIRM REQUEST

Referring to Fig. 6, in step 200, parser 50 starts, upon detection of a suitable response from USER2 received via mail server 55, to update the type of relationship state between USER2 and USER1, which identified USER2 as one of CONFIRM or DENY. A CONFIRM indicates that a user has accepted the type of relationship proposed by another user. On the other hand, DENY, indicates that a user did not confirm a relationship type listed by another user. If in step 205, the presence of a CONFIRM in an e-mail message is determined by parser 50, then at step 210, database server 45 updates the status of the proposed type of relationship to CONFIRM in database 70. Otherwise parser 50 searches for DENY at step 215. If a DENY is not found, then parser 50 executes step 220 and a message is sent to customer service, E16, indicating that the e-mail message is not a suitable response. If a DENY is found, then parser 50 executes step 225 in which the database 70 modifies the relationship type

to unspecified is (undefined). Subsequently, an e-mail message, E13, is sent by parser 50 to USER1. At step 230, the operation is ended. This routine is typically used in response to USER1 proposing a particular type of relationship with USER2, and USER2 (having previously confirmed the relationship), may separately confirm or deny the type of relationship proposed by USER1.

USER1 RESPONDS TO A REQUEST TO VERIFY A NEW E-MAIL ADDRESS

When a user desires to change or add an e-mail address, the personal profile is accessed and an e-mail verification routine is applied. For example, the routine prohibit the user from entering the e-mail address of another already in the database. Referring to Fig. 7, in step 300, parser 50 processes an inbound e-mail to determine if a new e-mail address is to be listed in database 70. At step 305, the same query as in step 205 is performed. Here, if the answer CONFIRM is found, the e-mail address in the database 70 is listed as CONFIRM in step 310. The e-mail address is also listed as CONFIRM at the "personal profile screen" and in the "white pages", each of which will be discussed below. In step 312, the procedure is terminated.

If no CONFIRM is found in step 305, then step 315 is executed. Step 315 determines the presence of DENY. If no DENY is found, then an e-mail, at step 320, is sent to customer service for manual processing, E.CUST.1, M.CUST.4. On the other hand, if a DENY is found, at step 325 a message is sent to the member of any other confirmed e-mail address for the user. Simultaneously, step 330 is executed wherein information is added to database 70 indicating that the e-mail address was denied.

In step 335, a query is performed by parser 50 to determine if USER1 has reached a maximum number of denied e-mail addresses. If so, then step 345 is executed which sends an e-mail message, E.CUST.1, E.CUST.5, to the user indicating that the maximum number of denied e-mail addresses has been reached. If not, however, then the routine ends at step 340.

<u>SERVICES Web-site</u>

Referring to Fig. 8, a user enters the web-site 90 through web server 35 at step 275. The user is first shown a pre-LOGIN screen. At this stage, the user has access to all public services provided by DSP 12. It is contemplated that public services include the white pages described herein and a "fun and games" option. To access any one of the public services provided by DSP 12, the user simply clicks a desired box in the displayed screen in a conventional manner. In a preferred embodiment, all public services are highlighted. However, it is possible that the member services boxes be shaded gray, indicating that they are inaccessible to the user.

The user also may click on the LOGIN box at step 276, as previously discussed. Once the user has completed the LOGIN procedure, COLD FUSION 60 executes routine Person_Get_Services_Info at step 277. In step 277, the user is validated as a member, and COLD FUSION 60 executes step 278. At step 278, the user is permitted access to valid member services, such as "marketplace", "connect me" and "network me", each of which is described below. In this case, boxes indicating the member services are highlighted as the above public services. It

should be noted that a member may still access the public

services of DSP 12 even after a LOGIN. Moreover, member services

are executed in the same manner as previously described for the

case of public services.

PERSONAL PROFILE

The "Personal Profile" screen 102 allows the user several

options to update and/or add relationships with database 70. The

options will be discussed below in turn.

1.   ADD NEW CONTACTS

One function for which Personal Profile screen 102 is used

is add new contacts. In the embodiment, referring to Fig. 9, at

the web-site 90 personal profile screen 102, a user may add a new

relationship by clicking on "Add New Relationships". The user is

then required to submit selected information. In the preferred

embodiment, the information is input into four separate fields

displayed on profile page 102: first name, last name, e-mail

address, and relationship type (father, mother, worker, etc.)

To initiate the process, the user is required to at least

enter a last name and an e-mail address and a relationship type,

which could be an "unspecified" or undefined type. Other

information could be required.

At step 801, the entry by the user, in this context, USER1

is validated (see step 602). If invalid, the user is returned to

personal profile screen 102 at step 801A. If valid, however, the

COLD FUSION 60 passes the information into stored procedure,

Person_Add_Relationship in step 802.

At step 803, it is determined if the input person, in this context a USER2, is unknown. If so, a suitable message is displayed at step 803A and a new record will be established in database 70.

In step 804, if USER2 is known, but not an active member with a relationship history or a non-responder, then step 804A is executed as above. At step 805, COLD FUSION 60 determines if USER1 has entered his own e-mail address. If so, then step 805A is executed notifying the user of the error. At step 806 it is determined whether a relationship between USER1 and USER2 has already been proposed by USER2, and is pending confirmation from USER1. If yes, the database 70 confirms the relationship and a message is presented to USER1 at step 806A indicating that the information is pending. It should be noted that, in step 806, USER1 listed the same relationship type as USER2 had already listed in the database 70.

At step 807, it is determined if USER2 has a relationship with USER 1 pending USER1's confirmation and the relationship that USER1 proposed with USER2 is a different type. If yes, the relationship will be confirmed and then, the relationship type will be listed as unspecified in database 70. Subsequently, step 806A is executed and, an e-mail message is sent to USER2 informing him of the request for reclassification of the relationship type.

At step 808, if a relationship between USER1 and USER2 is already listed in database 70 and is pending confirmation by USER2 entering the same type, USER1 activates step 808A. At step

808A, a message reminding USER2 of his pending confirmation is sent by database server 45, and USER1 is notified of the pending relationship.

In step 809 it is determined if USER1 entered a different type, even though the relationship is pending USER2's confirmation, as in step 808. If yes, step 809A is executed and the relationship is confirmed, as in step 807, and accordingly, USER1 is notified.

Steps 810, 810A, 811, 811A, 812, 812A, 813, and 813A operate in the same manner as steps 806, 806A, 807, 807A, 808, 808A, 809, and 809A. However, the relationship between USER1 and USER2 has already been confirmed in database 70, but a new type is pending confirmation.

If at step 814, USER1 enters the same type and the relationship between USER1 and USER2 is already confirmed in database 70, step 814A is executed informing the user that he has committed an error. At step 815, if the user enters a different type and the relationship is found as confirmed in database 70, step 815A is executed indicating that the relationship has already been confirmed, then step 815A is executed.

If the relationship in the database 70 is listed as having been cancelled by USER1 (step 816), cancelled by USER2 (step 817), or denied by USER1 (step 818), step 803A is executed as described above.

If the relationship was previously denied by USER2, at step 819, step 819A is executed and USER1 is notified that the relationship was denied by USER2.

At step 820, if USER2 is a denied member, USER1 is notified that USER2 does not wish to be contacted at step 820A. In step 821, if USER2 is a cancelled member, step 820A is executed.

In step 822, if USER2 is a revoked member, USER1 is notified at step 822A that USER2 is, indeed, a revoked member and that a relationship cannot be established with a revoked member.

2. RELATIONSHIPS PENDING CONFIRMATION

Referring now to Figs. 10A-10F, the logged-in user may interactively confirm or deny a pending relationship. This is another function performed in the Personal Profile screen 102. This is initiated by the user clicking the appropriate confirm or deny check box, and then clicking on the "submit" button associated with the pending relationship. The submit box is simply a predetermined area which causes the information entered by the user to be input into DSP 12. More specifically, this causes, at step 815, COLD FUSION 60 to determine whether any check box was selected. If an invalid click occurs, i.e., no check boxes were selected, step 815A represents an error message screen to the user. Once a confirmation or denial is found at step 815, a routine Person_Update_Pending_Relationships is executed at step 816 which updates database 70 to any confirm or deny operations. At step 817, COLD FUSION 60 determines if any relationships to the user have a DENY. If not, step 817A is executed and a message CONTACTS.SS.THANKS is displayed. If so, however, step 818 is called wherein it is determined if any other relationships with USER2 have a CONFIRM. If other relationships have a CONFIRM, a deny notification e-mail message E.DB.BRESP.2

is sent to the USER2 at step 818A, which explains that USER2 has other-confirmed relationships. Otherwise, step 819 is executed.

In step 819, database server 45 determines whether USER2 has any other relationships that have neither a CONFIRM or DENY. If there are, then step 819A is executed and a deny notification e-mail message E.DB.BRESP.3 indicating confirmed relationships exist, is transmitted to USER2. Otherwise, step 819B is executed and a deny notification e-mail message E.DB.DRESP.4, indicating other unconfirmed relationships exist, is transmitted to the USER2.

3. RECLASSIFY

Referring to Fig. 10, the logged-in user also may reclassify a pending relationship by clicking on it in the Personal Profile screen 102. This causes COLD FUSION 60 to operate database server 45 to execute, at step 820, the routine Get_All_Relationship_Types. At step 821, COLD FUSION 60 determines if the proposed reclassification is the same as what was previously registered in database 70. If so, routine Person_Update_Pending_Relationships is executed at step 822 as described above. A suitable message is displayed to the user indicating that the same relationship type was entered and therefore the pending relationship was confirmed. If not, however, routine Person_Reclassify_Relationship is executed at step 823. Step 823 signifies that USER1 has reclassified the relationship with USER2. At 823A, a suitable message is displayed to the logged-in user. Also, at step 824 the database server 45 queries whether the relationship was previously

classified. If it was not, an e-mail message E.SI.EDITREL.2 is

sent to USER2 at step 824B indicating that a previously undefined

relationship was classified. If it was, an e-mail message is

sent to USER2 indicating that USER1 seeks to reclassify the

5   relationship, at step 824A.

4.   RELATIONSHIPS PENDING USER2 CONFIRMATION

One option a user has is to remove a proposed relationship

that has not yet been confirmed or denied. When a user enters

the "click to cancel" box 57 on Personal Profile screen 102,

10   shown in Fig. __, web server 35 displays a message requiring

verification to remove a particular listing at step 830. If the

user clicks on the "remove" box in the displayed message, the

routine Person_Cancel_Pending_Relationships is called by database

server 45 at step 831. This routine allows the user to remove

15   unwanted relationships from his profile in DSP 12. It should be

noted that the user has the option to return to screen 102 by

clicking "nevermind" at step 830.

Step 831A is executed and the user receives back a message,

CONTACTS.SS.THANKS4, confirming the removal. Subsequently,

20   database server 45 executes steps 832-33. Steps 832 and 833 are

similar to 818 and 819 above and will not be here discussed. It

should be noted that the e-mail messages from steps 832A, 833A,

and 833B are sent to the USER2 that was removed from the logged-

in user's personal profile from parser 50.

25   5.   RELATIONSHIP TYPES PENDING CONFIRMATION

As shown in Fig. 10D, the user can confirm relationship type

information by clicking on the appropriate box and then clicking

on the "Submit" box. (Here, the relationships already have a
confirmed state, but the relationship type has been reclassified
by USER2). This causes COLD FUSION 60 to process the input data.
At step 840, a validation is performed to determine whether any
confirm boxes were "checked" by the user. If boxes were checked,
then the routine Person_Update_Pending is called at step 841 by
database server 45. In step 842, a screen is displayed thanking
the user for updating his relationships.

6. RELATIONSHIPS PENDING USERS CONFIRMATION

Referring to Fig. 10F, user may click on the "click to
reclassify or delete" relationship types in screen 102 to
reclassify or delete a relationship that is pending a
confirmation or a relationship type. In response to a click,
COLD FUSION 60 displays a message CONTACTS.PENDING.RECLAS.YOU to
the user at step 850, asking the user either to click on delete,
or to reclassify the relationship and click on submit to input
the new type. If the user clicks delete at step 850, a further
screen prompt at step 850A is displayed to verify that the user
is certain of the deletion. If the deletion is verified, at step
851, database server 45 calls routine Person_Delete_Relationship
which displays a message CONTACTS.SS.THANKS7 confirming the
deletion at step 851A. Steps 852, 852A, 853, 853A, and 853B are
similar to steps 832, 832A, 833, 833A, and 833B respectively, as
described above, and will not be further discussed here.

If, on the other hand, the user clicks on a "reclassify" box
at step 850, the database server 45 executes step 860. In step
860, Routine_Person_Update_Rel which will process the

reclassification. At step 861, the database server 45 determines if a reclassification was performed. If not, step 862B is executed and a display is sent to the user indicating the reclassification was not completed. On the other hand, if the type has been reclassified at step 861, an appropriate message is displayed.

Following step 862, step 863 is executed. Database server 45 determines if the relationship was originally defined by the USER1 who identified the logged-in user. If so, database server 45 executes step 863A to send an e-mail message E.SI.EDITREL.1 to USER1 to indicate the relationship was defined. If not, then database server 45 executes step 863B to send an e-mail message E.SI.EDITREL.2 to USER1 to indicate the relationship was originally unspecified.

7. CONFIRMED AND LISTED RELATIONSHIPS

The user also may use screen 102 to delete or reclassify confirmed or listed relationships in a similar manner.

Referring now to Fig. 10E, in step 870, the user is prompted to delete or reclassify any confirmed relationships. If delete is selected, steps 850A, 851, 851A, 852, 852A, 853, 853A and 853B are executed in a similar manner as described above.

If reclassify is chosen at step 870, step 870A is executed which calls routine Person_Reclass_Rel as above. Then, step 861 is executed. If the output at step 861 is yes, then steps 862A, 863A, and 863B are executed as described above. If the output is no at step 861, a screen is shown indicating that no change was

made at step 874. Subsequently, steps 863, 863A and 863B are executed as described elsewhere herein.

- It should be understood that after each deletion or reclassification, the database 70 is suitably updated.

<div align="center">EDITING PERSONAL PROFILE</div>

When a user registers with NDS 10 and becomes a member, the user may list various personal and professional information including e-mail address, last name, first name, aliases, occupation, geography, hobbies, skills or expertise, and the like. Certain user provided information, such as name, address, phone numbers, etc., may be consolidated in a "white pages" record of database 70. This information is all stored in one or more records in database 70 can be viewed through the personal profile functions when the user logs onto the web-site 90. One option a user has in using the personal profile is to edit any of the personal information previously provided by the logged-in user, as well as to provide new or supplemental information. This is done in a relatively straightforward manner and is generally described herein with reference to Fig. 11 and examples in Fig. 12.

1. EDITING WHITE PAGES

Referring now to Fig. 12, a flow chart is shown illustrating a process which allows a member to edit, add, or remove his personal profile listing from the white pages record in database 70.

In step 1200, the user clicks on "personal profile" box 78, on web-site 90, which executes step 1201. At step 1201, COLD

FUSION 60 displays an edit screen 95 which allows the user to edit his personal profile. By selecting the "edit" box 1202A corresponding to the "White Pages Listing" at step 1202, the user begins the editing process. At step 1203, routines Person_Get_WP_Info, Person_Get_WP_Names, and Person_Get WP_E-mails are executed by COLD FUSION 60 and database server 45 to determine if the member is currently listed in the white pages and to retrieve the user's relevant white page information at step 1204. If listed, step 1204A is executed and the current listing found in white pages is displayed at display device 23. At this stage, the user is prompted to input any new changes to his current listing or delete himself from the white pages. If the user is not listed, 1204B is executed which allows the user to input his personal and professional data.

After the user completes either steps 1204A or 1204B, routine person_update_WP info is called in step 1205. At step 1206, database server 45 determines if the user has removed himself from the white pages. If the answer is yes, step 1206A is initiated and the data base server 45 removes the listing from the white pages. This generates a screen to the user confirming the change. If not, however, a query is performed at step 1207 to determine if the information corresponds to a new listing. If yes, database server 45 updates white pages record in database 70, and subsequently notifies the user at step 1207A. If not, step 1207B is executed and database server 45 updates changes to the current listing. Subsequently, the user is informed of the change.

2. CANCEL MEMBERSHIP

This routine allows the user to cancel or modify his membership status with DSP 12.

Referring to Fig. 13, at step 1200 COLD FUSION 60 displays edit screen 95. By selecting the "edit" box 1301 corresponding to "Cancel Membership", the user executes step 1302. At step 1302, the user is queried as to whether she would like to proceed with the cancellation, change her status to "do not solicit", or both. This is followed by a sequence of steps that establishes, with confirmations as appropriate, the revised status of the user. The database is accordingly updated. In view of the detailed illustrations and the microfiche appendix, it is submitted that a person of ordinary skill in the art will be able to design appropriate sequences of instructions to edit the information of the personal profile of a user. The specific information and sequence is deemed to be a matter of design choice.

APPLICATIONS

One of the features of DSP 12 is that members can access various services to use the networking database for various purposes. One such purpose, which is an application of the networking database, is to search the database to find a member having a particular characteristic in his personal profile. Unlike conventional database searching, in accordance with the present invention, the networking database search also can provide a set of defined relationships between selected ones of hundreds or millions of thousands of members who respond to the

search request. This permits the searching user to find a linkage of defined relations between it and the member responsive to the search. It is estimated, based on the theories advanced by Marconi, that no more than six defined relationships will be needed to complete a chain between the searching user and the object of the search, assuming an adequately large number of members. The advantage of searching the networking database having defined relationships will become more clear in the view of the following examples.

EXAMPLE I - WHITE PAGES SEARCH

Referring to Fig. 14A-B, an application of an embodiment of the present invention is shown in a flow chart which permits a member or a non-member user to search through the white pages listing.

At step 1050, the user, is shown a display screen corresponding to the white pages search. At this point, the user does not have to have performed the LOGIN routine. However, it should be noted that, by design choice, only valid members are listed in the white pages directory of database 70 in the described embodiments. Other embodiments could permit non-members to be on the white pages. Still other embodiments could include having DSP 12 access available e-mail directories not part of the DSP 12.

The user may conduct a search using an e-mail address or last name. It is possible that as each could be perfomed by searching abilities, e.g., occupation, geography, hobby, skills, etc., which could be listed in the white pages. With respect to

a last name search, the user only needs the first letter of the last name to retrieve results.

If at step 1050, box 54, "e-mail search", is selected by the user, step 1051 is executed to determine a valid e-mail entry as in step 602. If the entry is invalid, step 1051A is executed and the user is notified of the error. Otherwise, the database server 45 routine E-mail_Get_Whitepage_Info is called in step 1052 by COLD FUSION 60.

At step 1052, the database server 45 searches the database 70 in order to find the entered e-mail address. If found, step 1053A is initiated and the result is displayed. The displayed result may list the first name, last name, street, city, state, zip code, country, home phone, work phone, or facsimile of the person searched. The white page listing parameters to be displayed may be chosen by the listed member at the time of registration or listing. Further, a member may permit certain of the white page information to be displayed to non-members, which is less than what is displayed to valid members. Also, what is displayed can be changed, as the member desires.

Referring again to step 1053, if no matches are found, step 1053B is executed, notifying the user that no search results were obtained.

It should be noted that in each of step 1053A and 1053B, the user is able to begin a new search.

Referring back to step 1050, if the user chooses box 56, "last name search", step 1055 is executed to determine whether any value is entered in last name, like in step 602.

If invalid, step 1055A is called to notify the user of this
result. If valid, however, routine Name_Get_Whitepage_List is
called in step 1056. At step 1057, the number of search results
is determined. If none, step 1057A is performed by COLD FUSION
60, indicating that no results were found, and also allowing a
new search to be conducted, for example, by broadening the search
categories.

If matches are found in step 1057, the number of matches is
counted in step 1058. If the count is found to be one, step
1058A is executed displaying the search results. If, not
however, routine Name_Get_WP_List is called. In step 1058B, the
total number of matches and the first part and last part of the
search results are shown. The number of results shown may be any
number, but is preferably ten. The user may display the profile
of any person on the list of results by clicking on the displayed
name which brings up screen 1053C. This is done in a manner that
is well known. Similar to steps 1053 A-B, a new or modified
search may be selected at steps 1057A, and 1058 A-C.

Again at step 1050, if the user selects box 58, "modify/add
listing", step 1070 is executed. Here, the user, after
completing LOGIN, may modify or add his listing in the white
pages.

At step 1070, COLD FUSION 60 transfers the user to the
personal profile to edit the information in the white page
listing. (See Figs. 14A-B).

Alternatively, instead of listing members by e-mail address,
last name etc., it should be recognized that a "marketplace"

could be designed which allows users to list products and services for sale, hire, rent etc., and to be searched by product type, services, etc. the marketplace could be limited to direct or indirected relationships.

<center>EXAMPLE II - NETWORK ME</center>

Referring to Fig. 15, another preferred embodiment of using DSP 12 of the present invention is illustrated which allows a member to search for other members that he is connected to directly or indirectly by defined relationships confirmed to be valid, based on one or more of the criteria entered in the member personal profile (see Fig. 11). For example, selected criteria may include, among other variations, one of (i) geography; (ii) occupation and geography; (iii) hobby and geography, and (iv) skills and geography. It should be noted that the criteria may be general or more specific. For example, for geographical information, the user may specify the state or more specifically, the city, of the person to be searched. It is also possible that criteria could include organizations such as alumni clubs or companies.

Referring now to Fig. 15, the user may click on box 42, "network me", in what is now a conventional manner. COLD FUSION 60 prompts the user at step 1020 to enter the criteria to be searched. The parameters to be entered are dependent on the type of search being performed, as described above. If the user fails to select the proper criteria for the search at step 1021, the routine will typically prompt the user to re-enter the correct search criteria. If, for example, the user intends to perform an

occupation and geography search and only enters data representative of geographical preference, then, step 1021A is executed notifying the user of the deficiency. If all the proper search criteria are entered at step 1021, step 1022 is called.

5   It should be noted that, by design choice, if a user chooses at step 1020 a search using any of hobby, occupation and skill, and only enters geographic information, a geographic search will be performed. Additional information for "hits" on the search may be obtained in addition to the geographic information.

10   In step 1022, one of routines Person_Network_Geography (geographic) Person_Network_Hobby, (hobby) Person_Network_Occupation (occupation), and Person_Network_Skills (skills) is called corresponding to the desired search to be performed. Each of the search routines is in SQL and is well known in the art. Therefore, they will not be further discussed.

       In step 1023, COLD FUSION 60 and database server 45 determine if any search results corresponding to the inputted criteria are found in database 70. If not, step 1023A is called to notify the user. Otherwise, step 1024 is executed.

20   EXAMPLE III - CONNECT ME

       Referring to Fig. 16, another illustrative embodiment using the DSP 12 of the present invention is shown.

       In step 1001, the user clicks on box 39 corresponding to "connect me." The user may access box 39 by first completing

25   LOGIN or alternatively checking box 39 and then completing LOGIN. It should be apparent that, by design choice, only members are authorized to utilize the "connect me" process. A similar

procedure can be used at the start of each application, e.g.,
network me. it also should be noted that the user could already
be logged in when seeking too access thisi application. Thus,
there is no need to login again.

At step 1002, a search screen is displayed, on display 23,
which interrogates the user for the last name or e-mail address
of the person the user wishes to search. However, the user may
also provide geographical or occupational data, or the first name
of the person. Other embodiments are also possible such as
searches by hobbies, skills, etc. It is to be understood that,
in the preferred embodiment, only an e-mail address or a last
name is required at step 1002.

If at step 1002, an e-mail address is entered, step 1003 is
executed to determine a valid e-mail address such as in step 602.
If a valid address is not found, step 1003A is executed and a
suitable display, SRCH.22.EL, is sent to the user.

If, however, the e-mail address is valid, routine
Person_Connect_E-mail is called by COLD FUSION 60 at step 1004.
At step 1005, a determination is made as to whether the entered
e-mail address is listed in database 70. If the e-mail address
is not found in database 70, step 1005A is executed notifying the
user that the e-mail address is unknown. If the output of 1005
is yes, then step 1006 is called to determine if a connection has
been found between the user and the search criteria, e.g.,
geography, occupation, etc. If not, then step 1006A is executed
informing the user. If so, however, then step 1007 is called to
determine if the connection in step 1006 is a "first degree"

relationship. A first degree relationship is one wherein a user knows another user by listing him in the database 70 (or by the other user listing him in the database 70). A "second degree" relationship is when the connection includes a first degree

5   relationship, as between USER1 and USER2, and a separate defined relationship as between USER2 and USER3, and the connection is made between USER1 and USER3 by the chain of two linked defined relationships. Thus, an N degree relationship is a chain of N linked first degree relationships. It is to be understood that

10   DSP 12 could monitor the number of relationships by degree number (first degree, second degree etc.) and notify the user, for example, via e-mail how his relationships have compiled over a period of time.

If yes in step 1007, step 1007A is called to show the user

15   the detail of the connection, for example, the first name, last name and how the user knows the person found in the search. If not, then 1007B is executed notifying the user.

Referring again to step 1002, if the input is a last name, step 1010 is executed.

20   In step 1010, the last name is determined to be valid and listed in database 70. If not, either step 1010A is called and SRCH.SS.E2 is sent to the user. If, on the other hand, the name is valid, routine Get_Candidate is called in step 1011 by cold fusion 60.

25   At step 1012, the number of search results is determined. If none are found, step 1012A is executed so informing the user.

Otherwise, step 1013 is called for display of the results to the user.

In step 1014, Person_Connect is initiated to determine if any connections were found. If yes, step 1007B is executed. If not, however, step 1015A is executed, indicating to the user that no connection was found.

<center>REQUESTING A NEW PASSWORD</center>

The function of subroutine Person_Resend_Password is to allow a member of NDS 10 to request a new password in the event his original password is lost, misplaced, or forgotten. A password may only be sent to the user's primary e-mail address and is a randomly generated password -- not selected by the user -- different from the original password. The first time the user attempts to use one of the original and current password, the password not used is invalidated.

Referring now to Fig. 17, a flow chart illustrating Person_Resend_Password is shown. At step 475, COLD FUSION 60 delivers a screen to display 23 prompting the user to enter his e-mail address. If the address is determined to be valid at step 476, i.e., it is in a proper format (see step 602), routine Parser_Resend_Password is executed at step 477. Otherwise, the user is notified that the e-mail address entered is invalid at step 478A.

In steps 477 and 478, routine Parser_Resend_Password determines if an e-mail address is successful, that is, the e-mail address is in system. If the output of step 478 is found to be successful, the user is sent notification of the success at

step 498A. In step 478B, database server 45 generates a new password, updates database 70, and passes the new password to mail server 55 for sending to the user at his primary e-mail address. It should be understood that only a user can receive a new password by accessing his private e-mail. Therefore, only the user has access to the new password, thereby maintaining the confidentiality of the password for the member.

Again in step 478, if the output is unsuccessful, step 478A is again executed. However, in this case, the e-mail address in steps 477-78 could be determined as follows:

(i)   e-mail address not listed in database 70;

(ii)   e-mail address is assigned to cancelled member;

(iii)   e-mail address is for a revoked member;

(iv)   e-mail address is for a denied member; and

(v)   the maximum number of requests by the user to access routine Resend_Password is exceeded.

Session validation

Since HTTP - the communication protocol used to carry information between the client and the NDS 10 in "connectionless", the identity of the user does not persist as the user navigates from one screen to the next. As such, authentication can not be implemented as it is with conventional client/server applications, where the user los-in once during the session and then remains validated until he logs off. Rather, a method had to be established whereby every single request for information by the user to the NDS 10 is accompanied by some type of information

that the NDS 10 could use to authenticate the request. This is accomplished by the NDS 10 Session Validation subsystem.

In brief, this system, upon verification of username and password via a conventional login screen, establishes a unique Session ID (SID) for the user which is stored in a data table in the NDS 10. This SID is passed to the client with every response from the NDS 10, so that the client can return it back to the NDS 10 with its next request for information. Along with the SID, the client also sends its network address and browser type, which the NDS 10 compares with the SID record stored in its local session table verifying the integrity of the SID. In the case where the SID is not found, the network address has changed, the browser type has changed, or the session has been inactive for an excessive amount of time, the request is considered invalid, and the user is required to login again. More detailed information about this subsystem can be learned by examining the Session Validation Cold Fusion files which are submitted as part of this application.

It is to be understood that the routines herein discussed, in accordance with the process of the present invention, are explained in further detail in the attached APPENDIX MICROFICHE. As herein described, the routines are referred to on a system level using a standard format as is conventional in the art: such as resend_password (see Fig. 16) or person_get_rel (see Fig. 4). It also should be understood that persons of ordinary skill in the art could, in view of the disclosure herein, produce suitable software that is fundamentally different in form from

what is disclosed in the microfiche appendix, yet perform the indicated and desired functions as set forth herein. Further, although the invention has been described with reference to a particular embodiment, it is to be understood that this

5   embodiment is merely illustrative of the application of the principles of the invention and should not be construed in a limiting manner. Numerous other modifications may be made and other arrangements may be devised without departing from the spirit and scope of the present invention.

10

WE CLAIM:

1.   A networking database system comprising:

- a communication port;

a web server connected to the communication port having a

first port operable to receive an incoming e-mail and

to transmit an outgoing e-mail, and a second port, the

web server having an output at the second port;

a database containing a plurality of records;

a database server connected to the database for operating on

said database;

a database connectivity engine connected to the web server

for preprocessing the output of the web server and

connected to the database server;

a queue server coupled to said database server for queing

outgoing e-mail;

a mail server operatively connected to said web server

second port to read incoming e-mail, and connected to

said queue server; and

a parser connected to the mail server to process incoming e-

mail messages and to the database server;

wherein the database server is responsive to the parser

processing to manipulate a record in the database, and the

database further comprises a plurality of records, selected ones

of said plurality of records being linked to selected other ones

of said plurality of records by a confirmed defined relationship.

2.   The system of claim 1 wherein an incoming e-mail contains a

formcode and the parser is operable to identify the formcode,
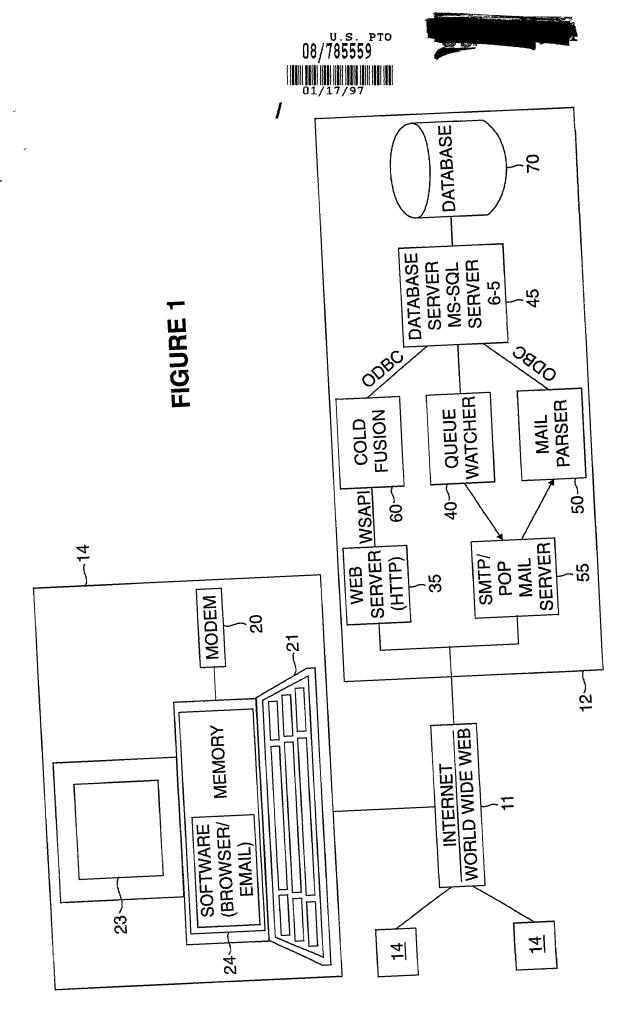
wherein the database server is responding to an identified

formcode to generate a record in said database.
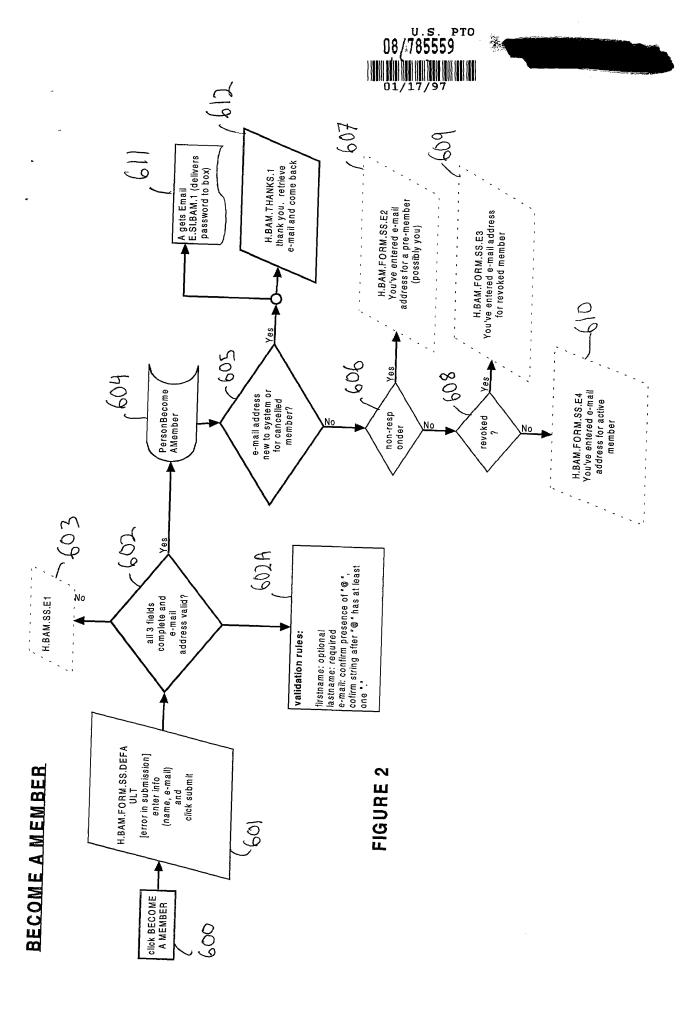
ABSTRACT

A networking database containing a plurality of records for different individuals in which individuals are connected to one another in the database by defined relationships. Each individual has the opportunity to define the relationship which may be confirmed or denied. E-mail messaging and interactive communication between individuals and a database service provider provide a method of constructing the database. The method includes having a registered individual identify further individuals and define therewith a relationship. The further individuals then, in turn, establish their own defined relationships with still other individuals, the defined relationships are mutually defined.

FIGURE 1

DATABASE 70

DATABASE SERVER MS-SQL SERVER 6-5 45

ODBC

ODBC

COLD FUSION 60

QUEUE WATCHER 40

MAIL PARSER 50

WSAPI

WEB SERVER (HTTP) 35

SMTP/ POP MAIL SERVER 55

12

14

MODEM 20

MEMORY

SOFTWARE (BROWSER/ EMAIL) 24

21

23

INTERNET WORLD WIDE WEB 11

14

14

BECOME A MEMBER

FIGURE 2

600 — click BECOME A MEMBER

601 — H.BAM.FORM.SS.DEFAULT
[error in submission]
enter info
(name, e-mail)
and
click submit

602 — all 3 fields complete and e-mail address valid?

603 — H.BAM.SS.E1 — No

602A — **validation rules:**

firstname: optional
lastname: required
e-mail: confirm presence of "@",
cofirm string after "@" has at least
one ".".

604 — PersonBecome AMember

605 — e-mail address new to system or for cancelled member?

Yes

606 — non-resp onder

Yes

608 — revoked ?

Yes

No

607 — H.BAM.FORM.SS.E2
You've entered e-mail
address for a pre-member
(possibly you)

609 — H.BAM.FORM.SS.E3
You've entered e-mail address
for revoked member

610 — H.BAM.FORM.SS.E4
You've entered e-mail
address for active
member

611 — A gets Email
E.SI.BAM.1 (delivers
password to box)

612 — H.BAM.THANKS.1
thank you. retrieve
e-mail and come back

A NAMES B

400

401

A is B (3)

B is invalid e-mail address

B is cancelled or denied member (18, 19)

B is revoked member (20)

B = 0-Sponsored, B = 1-Sponsored (2a)

B = 0-BAM, B = 1-BAM, B = 2 Sponsored or BAM (2b)

B = 3 (2c)

PENDING A — A NAMES SAME TYPE (4)

— A NAMES DIFFERENT TYPE (5)

PENDING

PENDING B — A NAMES SAME TYPE — B = 0-BAM, B = 1-BAM, B = 2 Sponsored or BAM (6a)

B = 0-Sponsored, B = 1-Sponsored (6b)

B = 3 (6c)

— A NAMES DIFFERENT TYPE — B = 0-BAM, B = 1-BAM, B = 2 Sponsored or BAM (7a)

B = 0-Sponsored, B = 1-Sponsored (7b)

B = 3 (7c)

PENDING TYPE — PENDING A-type — A NAMES SAME TYPE (8)

— A NAMES DIFFERENT TYPE (9)

— PENDING B-type (10, 11)

CONFIRMED — CONFIRMED TYPE (12, 13)

DENIED — DENIED BY A (16)

— DENIED BY B (17)

B is not a valid candidate for a relationship with A

Relationship is new

Relationship already exists

FIGURE 3

LOGIN/COMPLETE REGISTRATION/ALERTS

FIGURE 4A

701 — request secure page

702 — SID ok?

— Yes → 703 — requested page is returned

— No →

Invalid Session
LOGIN
C1: no SID
C2: SID expired
C3: bad IP

704 — Login from services home page

705 — valid (front end)

— No → 706 — Invalid entry LOGIN

— Yes →

707 — ValidateLogin

nr, dn, am, cm, dm with valid password

708 — found, and not revoked?

— No → 709 — revoked?

— not found → 714 — username not found LOGIN

— Yes → 710 — Sorry, account is revoked

— Yes →

711 — password valid?

— Yes → G → TO FIGURE 4B

— No → 713 — invalid password LOGIN

FROM FIGURE 4A

(G) → post-validation login → must complete gog? 712

eval based on membershiplevel returned in ValidateLogin

711

Yes → PersonGet PreRegistrationInfo, RegionGGetAll, OccupationGGetAll 716

→ Complete Reg Screen

H.SERVC.ORGYCONF. SS.DEFAULT 718

→ vald? 719

No →

E1: name null
E2: geog null
E3: occu null
E4: gender null
E5: confirm null

H.SERVC.ORGYCONF.SS.ERRORS

Yes → PersonUpdatePr eReglstrationInfo 720

PersonGetRelationshp SponsoredCount 717

No → count = 0? 721

Yes → Add relatonship

.LOGIN.ADDNEW.SS.DE FAULT 722

→ vald (front end) 723

Yes → PersonAddNe wRelationship 724

No → (H)

ERROR

.LOGIN.ADDNEW.SS.ERRORS 725

FIGURE 4B

TO FIGURE 4C

FROM FIGURE 4B

FIGURE 4C

(H) → validateLogin (returns login count) 726 → second login 727

second login → Yes → Questionair LOGIN.QUESTIONAIR 727A → UpdateQuestionair 727B

second login → No → PersonGetRelationship Status 730

PersonGetRelationship Status → has pending rel or 0 total rel 731

has pending rel or 0 total rel → Yes → pending or no rel 732

pending or no rel → pending → Confirm or deny LOGIN.ALERT. PENDING 733

pending or no rel → no rel → No Relations LOGIN.ALERT.NORE L 734

Confirm or deny LOGIN.ALERT.PENDING → Anything 2 process? 735

No Relations LOGIN.ALERT.NOREL → Anything 2 process? 735

Anything 2 process? → Yes → PersonUpdate PendingRelationships 736

Anything 2 process? → No → Continue...

has pending rel or 0 total rel → No → Continue...

FIGURE 5A

B's RESPONDS

```
B's responds          Parser grabs              Process
arrives at            message, parses           Relationship
E-mail Server    →    formcode and          →   Response
                      identifies message as
   100                Type B-RESPONDS
                          101                    105
```

Relationsh ip denied? (140)
— No → Relationship confirmed? (125)
— No → Forward E-mail to customer service (135)

Yes↓ (Relationship denied branch) → Update A-B to denied by B (145)
Yes↓ (Relationship confirmed branch) → confirm A-B (130)

Does A have other confirmed relationships? (150)
— Yes → A gets email **E.DB.BRESP.2** (150A)
— No →

Does A have other unconfirmed rels? (155)
— Yes → A gets email **E.DB.BRESP.3** (165)
— No → A gets email **E.DB.BRESP.4** (170)

TO FIGURE 5B Ⓐ

FROM FIGURE 5A

(A) → Process New Relationships (B is now A) 180

185 Any new relationships to process?

Yes → A names B 190

Yes → Any more rels to process? 195

No → Any items in response list? 196

Yes → Has B met relationship requirement? 197

Yes → A gets e-mail E.DB.ANB.7 & approp M's 197A

No → A gets e-mail E.DB.ANB.8 & approp. M's 197B

No →

(B) TO FIGURE 5C

FIGURE 5B

FROM FIGURE 5B

FIGURE 5C

B

260 Update B's Status

261 B's status is non-responder or deny responder

Yes

262 B has confirmed relationship

Yes

263 Update B to PreRegistered

No

264 Update B to deny responder

END

USER 2 RESPONDS TO RELATIONSHIP TYPE CONFIRM REQUEST

Starts with
E.DB.ANB.6
or E.SI.EDITREL.1
or 2

DB receives
response
back from B
200

205
Is the word
"confirm"
anywhere on
the page?

Yes →
210
DB 70 updates the relationship classification to read "confirmed." No communication goes out to A or B.

No →
215
Is the word
deny anywhere
on the page?

Yes →
225
DB holds the relationship type as undefined.

A gets email
E.DB.EDITREL.2

No →
220
Email to customer service
E.CUST.1
w/M.CUST.3

230
END

FIGURE 6

USER 1 RESPONDS TO REQUEST
TO VERIFY NEW EMAIL ADDRESS

Starts with E.SI.PPADDEA.1

300

305 — Is the word confirm on the page?

Yes→ Enter DB as confirm. List in PP file and WP file (if applicable) — 310

→ END — 312

No↓

315 — Is the word deny anywhere?

Yes→ Email to member at confirmed address **E.DB.PPADDEA.1** (noting email address was rejected by mailbox owner) — 325

No↓

320 — Email to customer service **E.CUST.1 w/M.CUST.4** (noting email was unreadable)

→ Add to person activity table denial of email address — 330

335 — Has person reached maximum number of denied email addresses?

Yes→ Customer service gets **E.CUST.1 w/M.CUST.5** — 315

No→ END — 340

FIGURE 7

Services Home Page

275
H.SERVC.HOME.
NOTLOGGEDIN

276
LOGIN

277
personGet
ServicesInfo

278
H.SERVC.HOME.
LOGGGEDIN

FIGURE 8

FIGURE 9B

FROM
FIGURE 9A
J

12. Relationship already exists and is confirmed - A lists same type
814

814A
SS.E5
Yes

No

13. Relationship already exists and is confirmed - A lists different type
815

815A
SS.E5
Yes

No

14. Relationship already exists - was cancelled by A
816

816A
SS.THANKS!
Yes

No

15. Relationship already exists - was cancelled by B
817

817A
SS.THANKS!
Yes

No

16. Relationship already exists - was denied by A
818

818A
SS.THANKS!
Yes

No

17. Relationship already exists - was denied by B
819

819A
SS.E6
Yes

No

18. B is a denied member
820

820A
SS.E8
Yes

No

19. B is a cancelled member
821

821A
SS.E8
Yes

No

20. B is a revoked member
822

822A
SS.E4
Yes

Personal Profile - Update Contacts - (see separate flow for add new)

PersonGetRelationships

102

PP.Relationship Manager Page [H.SERVC.PROFLE.CONTACTS.SS.DEFAULT]

ADD NEW CONTACT

Add new relationships

see separate flow

Name:
E-mail:
Rel. Type:

These are relationships pending your confirmation
click to reclassify   confirm   deny
John Smith, Jsmith@aol.com is your father
Larry Smith, Lsmith@aol.com is your brother

These are relationships pending B's confirmation
click to cancel
Joe Smith, JJsmith@aol.com is your employer
Fred Smith, Fsmith@aol.com is your friend

RelI types pending your confirmation:
click to reclassify or delete
Maggie Walker, MWalker@abc.com is your friend

These are your confirmed and listed relationships
Nelson Smith, Nsmith@aol.com is your friend
Sally Smith, Ssmith@aol.com is your mother

SUBMIT

SUBMIT

Nevermind

CONTACTS.S
S.E1   815A

Valid? (front
end) - any
checked?   815

No

Yes

PersonUpdate
PendingRelationships   816

any
denies?   817

no

yes

CONTACTS SS THANKS1   817A

Does B have
other confirmed
rels?   818

Yes

No

B gets email
E DB.BRESP.2   818A

Does B have
other unconfirmed
rels?   819

Yes

No

B gets email
E DB BRESP.3   819A

B gets email
E DB BRESP.4   819B

K   L   M   N   O

FIGURE 10A

GetAllRelTypes 820

CONTACTS.PEN DING.RECLASS 820A

Is Same? 821
Yes
No

PersonUpdate PendingRelationship 822

You chose same type - we took that as confirmation. If you were wrong, edit below.

CONTACTS.SS.THANKS6 822A

PersonReclassify Relationship 823

OK, we confirmed the relationship and sent e-mail to B telling him of your reclassification. The rel will be listed as unspecified until B responds.

CONTACTS.SS.THANKS3 823A

Was rel classified in the first place? 824
Yes
No

B gets email E.SI.EDITREL.1 824A

B gets email E.SI.EDITREL.2 824B

FIGURE 10B

Are you sure you wish to remove? abc@def.com?

NEVERMIND   REMOVE

CONTACT.PENDCONF.REMOVE

830

L

Remove

831 PersonCancel PendingRelationship

831A We've processed the removal CONTACTS.SS.THANKS4

832 Does B have other confirmed rels?

Yes

832A B gets email E.SI.EDITREL.2

No

833 Does B have other unconfirmed rels?

Yes

833A B gets email E.SI.EDITREL.3

No

833B B gets email E.SI.EDITREL.4

FIGURE 10C

M

840

Front end
validation
Any
checked?

Yes

841

PersonUpdate
Pending

842

We've processed the
confirm/deny
CONTACTS.SS.THANKS8

840A

CONTACTS.SS.E1

FIGURE 10D

870

Please l RECLASSIFY or J DELETE

.CONTACTS.CONFIRMED.EDIT.SS.D
efault

850A

Are you sure?

CONTACTS.CONFIRMED.E
DIT.DELETE

870A

Person
ReclassifyRel

861

Reclassified
?

862A

We've processed the reclass

CONTACTS.SS.THANKS9

874

No change made.

CONTACTS.CONFIRMED.EDIT.SS.Err

or

863

Was the
relationship
defined in the first
place?

863A

B gets email
E.SI.EDITREL.1

863B

B gets email
E.SI.EDITREL.2

851

PersonDelete
Relationship

851A

We've processed the deletion

CONTACTS.SS.THANKS10

852

Does B have
other confirmed
rels?

852A

B gets email
E.SI.EDITREL.2

853

Does B have other
uncontirmed rels?

853A

B gets email
E.SI.EDITREL.3

853B

B gets email
E.SI.EDITREL.4

N

FIGURE 10E

.CONTACTS.PENDING.RECLASS.YOU

Please reclassify and click SUBMIT

or DELETE

850

Are you sure?
.CONTACTS.PENDING.R
EL.CLASS.YOU.DELETE

850A

PersonUpdate
Rel

860

Reclassified
?

861

Yes

No

We've processed the reclass
CONTACTS SS THANKS5

862A

We've processed the submission
CONTACTS SS THANKS6

862B

Yes

PersonDeleteR
elationship

851

We've processed the deletion
CONTACTS SS THANKS7

851A

Was the
relationship
defined in the first
place?

No

B gets email
E:SLEDITREL 2

Yes

B gets email
E:SLEDITREL 1

No

Does B have
other unconfirmed
rels?

Yes

B gets email
E:SLEDITREL 3

No

B gets email
E:SLEDITREL 4

Does B have
other confirmed
rels?

582

Yes

B gets email
E:SLEDITREL 2

852A

Does B have
other unconfirmed
rels?

852

Yes

B gets email
E:SLEDITREL 3

853A

No

B gets email
E:SLEDITREL 4

853B

FIGURE 10F

Personal Profile - Edit White Pages

1200

Member clicks Personal Profile

~78

1201

[H.SERVC.PROFILE.HOME.1]

Page welcomes member and displays entire profile as listed and gives options to edit.

Welcome FN LN
Member since x/xx/xx
You last visited
You last updated PP

Name, aliases — EDIT

Gender — EDIT

Email address — EDIT

Password - type below — submit

Geography — EDIT

Occupation — EDIT

Hobby — EDIT

Skills — EDIT

White Pages Listing
Name
Address
Phone — EDIT

Update Contacts
(Relationship manager) — EDIT

Cancel Membership

1202

1203

PersonGetWPInfo,
PersonGetWPNames,
PersonGetWPEmails

1204 currently listed?

—No→

—Yes—

1204A Here's your current listing. To Edit, make changes and click submit. To unlist, select unlist checkbox.
.PROFILE.WP.SS.DEFAULT

1204B You are currently not listed in the white pages. To list, complete info below and click Submit
.PROFILE.WP.SS.LISTME

—SUBMIT→

—SUBMIT→

1205 PersonUpdate WPInfo

1206 Unlisting?

—Yes→ 1206A Thank you UNLIST
.PROFILE.WP.THANKS. UNLIST

1207 New listing

—No→ 1207B Thank you UPDATE
.PROFILE.WP.THANKS. EDIT

—Yes→ 1207A Thank you ADD
.PROFILE.WP.THANKS. NEW

FIGURE 12

Personal Profile/Cancel Membership

FIGURE 13

Member clicks Personal Profile — 1200

[H.SERVC.PROFILE.HOME.1]

Page welcomes member and displays entire profile as listed and gives option to edit.

Welcome FN LN
Member since xx/xx/xx
You last visited
You last updated PP

Name, aliases [EDIT]
Gender [EDIT]
Email address [EDIT]
Password
- type below [____] submit
Geography [EDIT]
Occupation [EDIT]
Hobby [EDIT]
Skills [EDIT]
White Pages Listing
Name
Email
Address
Phone [EDIT]
Update Contacts
(Relationship manager) [EDIT]
Cancel Membership [EDIT] — 1301

95

no movement

1302 — Really cancel or do not solicit member? [H.SERVC.PROFILE.CANCEL.1]

Really cancel

1303 — Exit poll H.SERVC.PROFILE.CANCEL QUEST

1304 — Person.Update Cancel Membership Quest

1305 — To much e-mail?

Yes — 1305A — Want to be a do not solicit member? PROFILE.CANCEL.NSR

No

1307 — Do not solicit member?

1306 — Person.Cancel Membership

1306A — Cancellation complete PROFILE.CANCEL.COMPLETE

Email to "B" (all of A's 1st degree)

1308 — Person.Update MembershipStatus

Yes — 1308B — You are now a do not solicit member. PROFILE.CANCEL.THANKS.NSR

1309 — Does B have other confirmed relationships?

No — 1309A — B gets Email ES.CANCEL.1

Yes

1310 — Does B have other unconfirmed relationship?

No — 1310A — B gets Email ES.CANCEL.2

Yes — 1310B — B gets Email ES.CANCEL.2

WHITE PAGES

1050

You can search either by email or lastname

EMAIL SEARCH — 54

LAST NAME SEARCH — 56

MODIFY/ADD LISTING — 58

H.SERVC.WHITE.SCH.SS.DEFAULT

H.SERVC.WHITE.SCH.SS.E.NAME
No Last Name.
Request Last Name. Allow other changes in same search.
new search

1055A

Valid? (front end) — 1055

yes → (D) **TO FIGURE 14B**

Go to PP/White Pages — 1070

front end e-mail validation per standard 6D format

e-mail valid? (front end) — 1057

no → ERROR, try again.
H.SERVC.WHITE.SCH.SS.E.EMAIL — 1057A

yes → Email/Get WhitepageInfo — 1052

Match found?? — 1053

no → H.SERVC.WHITE.SCH.SS.NOMATCH.EMAIL
No match, why don't you try filling in last name? — 1053A

Yes → WHITE.SCH.RSLT.DETAIL.SS.DEFAULT
DISPLAY RESULT

You searched for jsmith@def.com.

Here's his white page listing:

jsmith@def.com
john smith
asdfasdfasfd

SEARCH AGAIN

1053B

FIGURE 14A

FIGURE 14B

FROM FIGURE 14

(D)—Yes→

NameGet
WhitepageList

Any
hits?? —NO→

1058

WHITE.SCH.SS.NOMATCH.NAME
modify search by broadening
categories (spelling of last name and
categories (spelling of last name and
—removing geography
new search

(1057A

—YES→

Just
One? —Yes→

1059

—No→

1057

1058B

WHITE.SCH.RSLT.LIST
List total # of matches.
Show first 10, Last 10.
Shows searchable names with city, state.
All Names are hot with ability to see detail listing.
new search
modify search

NameGet
WPList

—ZOOM→

1058A

WHITE.SCH.RSLT.DETAIL.SS.1NAME

DISPLAY RESULT

You searched for jsmith@def.com.

Here's his white page listing:

jsmith@def.com
john smith
asdfasfdasfd

SEARCH AGAIN

WHITE PAGES

WHITE.SCH.RSLT.DETAIL.SS.MANYNAME

DISPLAY RESULT

You searched for jsmith@def.com.

Here's his white page listing:

jsmith@def.com
john smith
asdfasfdasfd

BACK

SEARCH AGAIN

(1053C

NETWORK ME

GEOGRAPHY
HOBBY
OCCUPATION
SKILL

SERV.NETWORKME.
SEARCH.SS.DEFAULT

1020

FIGURE 15

valid
(front end)

ON

1021

SERV.NETWORKME.
SS.E1

1021A

not valid if user failed to select
any criteria

Yes

personNetworkGeo,
personNetworkHobby,
personNetworkOcc,
personNetworkSkills

1022

anyHits

ON

1023

SERV.NETWORKME.
SS.NOHITS

1023A

Yes

Geog or
HOS?

HOS

1024

SERV.NETWORK.
RESULTS.
SS.DEFAULT

1024A

Geography

SERV.NETWORK.
RESULTS.
SS.DEFAULT

1024B

CONNECT ME
(H.SRVC.CONNECT.#)

User clicks
CONNECT ME
or arrives via
bookmark

1001

H.SERVC.CONNECT.SRCH.DEFAULT
INITIAL SEARCH CRITERION
Required: Last Name or Email
Optional: Geography, Occupation or
First Name (soft comparison)

1002

NAME → E → TO FIGURE 16B

EMAIL

Valid
(front end) — No → SRCH.SS.
E1

1003

1003A

Yes

PersonConnect
Email

1004

email
in system — No → SRCH.SS.NOHITS.
EMAIL

1005

1005A

Yes

no
connection — N → SRCH.SS.NOCONN
.EMAIL

1006

1006A

Yes

1st degree
only — Yes → .RESULT.SS.
1STONLY

1007

1007A

No

.RESULT.SS.
DEFAULT
(smart text if coming
from pre-search list)

1007B

F — Yes
FROM
FIGURE
16B

FIGURE 16A

FROM FIGURE 16A

E — NAME

Valid (front end) — 1010

SRCH.SS. E2

Get candidate list — 1011

any hits?

No — SRCH.SS. NOHITS.NAME — 1012 / 1012A

Yes

List results with narrow-search smart-form CONNECT.LIST.SS. DEFAULT — 1013

narrow-search smart-form always appears. lastname is editable. occupation and geography pulldowns are available based on level of specificity in previous search

IF re-searching and lastname is submitted as blank, it should be reset to the previous lastname

PersonConnect Email — 1014

Any connections? — 1015

Yes — F — TO FIGURE 16A

No — .SEARCH.SS. NOCONN. NAME — 1015A

FIGURE 16B

RESEND PASSWORD

Enter e-mail
SERV.RESEND.PWORD.SS.D
EFAULT

valid
(front end) — NO →

Enter e-mail
SERV.RESEND.PWORD.SS.E
RRORS

person.Resend
Password

successful?

no

Yes →

SERV.RESEND.PWORD.THANKS

Yes →

A gets Email
E.SI.REQPW.1

E1: invalid e-mail address (front end)
E2 - e-mail address not in system
E3 - e-mail address for canceled member
E4 - e-mail address for revoked member
E5 - e-mail address for denied member
E6 - exceeded daily resend limit

FIG. 17

/

XX Applicant **Weinreich et al.**   ☐ Patentee _____

XX Application No. **08/785,559**   ☐ Patent No. _____

XX Filed on **January 17, 1997**   ☐ Issued on _____

Title: **METHOD AND APPARATUS FOR CONSTRUCTING A NETWORKING DATABASE AND SYSTEM**

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(c))—SMALL BUSINESS CONCERN
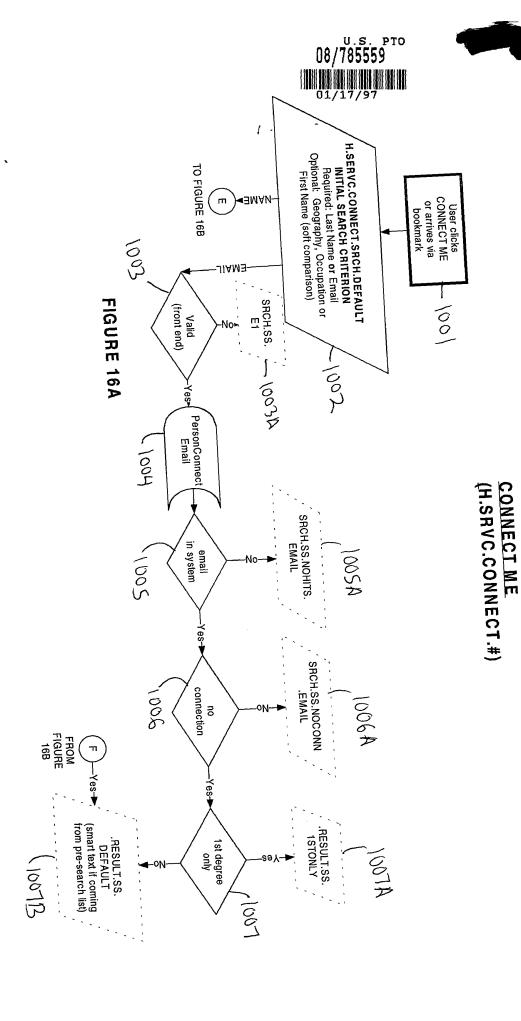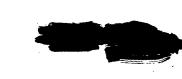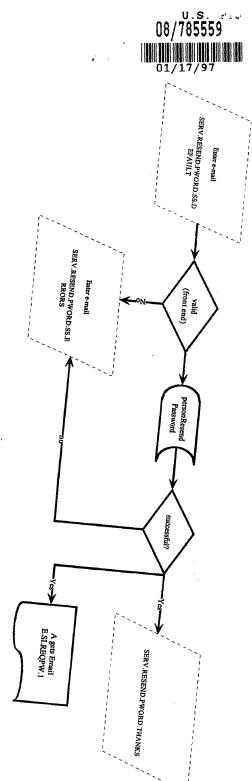
I hereby declare that I am

☐ the owner of the small business concern identified below:

XX an official of the small business concern empowered to act on behalf of the concern identified below:

Name of Small Business Concern **MacroView Communications Corp.,**

Address of Small Business Concern **90 William Street**

New York, NY 10038

I hereby declare that the above identified small business concern qualifies as a small business concern, as defined in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office under Sections 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third-party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to, and remain with, the small business concern identified above, with regard to the invention described in

☐ the specification filed herewith, with title as listed above.

XX the application identified above.

☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c), if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: *Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)*

Each such person, concern or organization having any rights in the invention is listed below:

    ☒ No such person, concern, or organization exists.

    ☐ Each such person, concern or organization is listed below.

Name _____

Address _____

☐ INDIVIDUAL   ☐ SMALL BUSINESS CONCERN   ☐ NONPROFIT ORGANIZATION

Name _____

Address _____

☐ INDIVIDUAL   ☐ SMALL BUSINESS CONCERN   ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing ____ Andrew P. Weinreich _____

Title of Person if Other Than Owner ____President_____

Address of Person Signing ____9 West 70th Street, Apt. 4R_____

____New York, NY 10023_____

SIGNATURE _~Andrew P. Weinreich~_ Date__9/15/97____

OIPE
OCT 0 1 1997
PATENT & TRADEMARK OFFICE

Attorney's Docket No. <u>9276.2</u>   *PATENT*

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

☒ original.

☐ design.

☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

☐ divisional.

☐ continuation.

☐ ,continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor *(if only one name is listed below)* or an original, first and joint inventor *(if plural names are listed below)* of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

<u>Method And Apparatus For Constructing A Networking Database</u>

<u>And System.</u>

(Declaration and Power of Attorney [1-1]—page 1 of 7)

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☐ is attached hereto.

NOTE: *"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on ___January 17, 1997___, as ☒ Serial No. 08 /_785,559___
or ☐ _____
and was amended on _____ *(if applicable).*

NOTE: *Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.*

NOTE: *"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐ was described and claimed in PCT International Application No.
_____, filed on _____ and as
amended under PCT Article 19 on _____ *(if any).*

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)–(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

(Declaration and Power of Attorney [1-1]—page 3 of 7)

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)–(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER   **FILING DATE**

_____ /_____   _____

_____ /_____   _____

_____ /_____   _____

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), *IF ANY,* FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

_____

_____

_____

NOTE: *If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.*

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert M. Isackson	Reg no. 31,110
Tzvi Hirshaut	Reg no. 38,732
Charles W. Bradley	Reg no. 17,855
Larry B. Goodwin	Reg no. 29,642

(check the following item, if applicable)

Mark J. Pensabene   Reg no. 37,416

Bradford S. Breen   Reg no. 30,823

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: *(Name and telephone number)*
Robert M. Isackson Orrick, Herrington & Sutcliffe, LLP 666 Fifth Avenue New York, New York 10103	Robert M. Isackson 212 506-5000

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

*(check proper box(es) for any of the following added page(s)
that form a part of this declaration)*

☑ **Signature** for fourth and subsequent joint inventors. *Number of pages added*
___4___.

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____.

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
　　　　　　　☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

*(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)*
　　　　　　　☐ This declaration ends with this page.

(Declaration and Power of Attorney [1-1]—page 7 of 7)

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or first Inventor

Andrew	P.	Weinreich
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date ____9/15/97____ Country of Citizenship ____U.S.A.____

Residence __New York, New York__

Post Office Address __9 West 70th Street, Apt. 4R__
__New York, New York 10023__

Full name of second joint Inventor, if any

Mark	R.	Salamon
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date ____9/14/97____ Country of Citizenship ____U.S.A.____

Residence __New York, New York__

Post Office Address __156 West 75th Street, Apt. 1__
__New York, New York 10023__

Full name of third joint Inventor, if any

Shoshana		Zilberberg
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date ____9/15/96____ Country of Citizenship ____U.S.A.____

Residence __New York, New York__

Post Office Address __28 West 88th Street__
__New York, New York 10024__

Practitioner's Docket No. _9276.2_

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Nicole   _D._   _Berlyn_
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _9/15/97_ _____ Country of Citizenship _U.S.A._

Residence _New York, New York_

Post Office Address _50 West 72nd Street, Apt. 603_
New York, NY 10023

Full name of fifth joint inventor, if any

Leeann   _Mitchell_
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _U.S.A._

Residence _New York, New York_

Post Office Address _334 West 77th Street, Apt. 14_
New York, NY 10021

Full name of sixth joint inventor, if any

Cliff   _Rosen_
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _9/15/97_ _____ Country of Citizenship _U.S.A._

Residence _New York, New York_

Post Office Address _335 East 51st Street, Apt. LF_
New York, NY 10022

Practitioner's Docket No. __9276.2__

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Nicole	D.	Berlyn
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __50 West 72nd Street, Apt. 603__
__New York, NY 10023__

▬▬▬

Full name of fifth joint inventor, if any

Leeann		Mitchell
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _Leeann E. Mitchell_

Date _9/18/97_ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __334 West 77th Street, Apt. 14__
__New York, NY 10021__

▬▬▬

Full name of sixth joint inventor, if any

Cliff		Rosen
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __335 East 51st Street, Apt. LF__
__New York, NY 10022__

Practitioner's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Adam _____ MIDDLE INITIAL OR NAME _____ Seifer
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date 9/15/97 _____ Country of Citizenship U.S.A.

Residence New York, New York

Post Office Address 226 East 70th Street, Apt. 4H
New York, NY 10021

━━━━━

Full name of fifth joint inventor, if any

Justin _____ Greene
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date 9-14-97 _____ Country of Citizenship U.S.A.

Residence New York, New York

Post Office Address 532 LaGuardia Place, Apt. 625
New York, NY 10012

━━━━━

Full name of sixth joint inventor, if any

David _____ Haber
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship U.S.A.

Residence Great Neck, New York

Post Office Address 36 Allenwood Road
Great Neck, NY 11023-2127

Practitioner's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

__Adam__	_____	__Seifer__
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __226 East 70th Street, Apt. 4H__
__New York, NY 10021__

Full name of fifth joint inventor, if any

__Justin__	_____	__Green__
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __532 LaGuardia Place, Apt. 625__
__New York, NY 10012__

Full name of sixth joint inventor, if any

__David__	_____	__Haber__
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature X _____ 9/18/97

Date _____ Country of Citizenship __U.S.A.__

Residence __Great Neck, New York__

Post Office Address __36 Allenwood Road__
__Great Neck, NY 11023-2127__

(Added Page to Combined Declaration and Power of Attorney for Signature by Fourth and Subsequent Inventors [1-2])

Attorney's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

David		Samuels
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature

Date 9-18-97 _____ Country of Citizenship _____ U.S.A.

Residence Atlantic Beach, New York

Post Office Address 43 Dutchess Blvd.

Atlantic Beach, New York 11509

Full name of fifth joint inventor, if any

Ron		Chibnik
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature X

Date 9-18-97 _____ Country of Citizenship _____ U.S.A.

Residence New York, New York

Post Office Address 310 West 55th Street, Apt. 1E

New York, New York 10019

Full name of sixth joint inventor, if any

Scott		Clifford
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____ U.S. A.

Residence East Moriches, New York

Post Office Address 36 Watchogue Avenue

E. Moriches, New York 11940

Attorney's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

David		Samuels
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___Atlantic Beach, New York___

Post Office Address ___43 Dutchess Blvd.___

Atlantic Beach, New York 11509

▬▬▬

Full name of fifth joint inventor, if any

Ron		Chibnik
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___310 West 55th Street, Apt. 1E___

New York, New York 10019

▬▬▬

Full name of sixth joint inventor, if any

Scott	G.	Clifford
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature X _Scott G Clifford_

Date X _Sept 19, 1997_ Country of Citizenship ___U.S.A.___

Residence ___East Moriches, New York___

Post Office Address ___36 Watchogue Avenue___

E. Moriches, New York 11940

(Added Page to Combined Declaration and Power of Attorney for Signature by Fourth and Subsequent Inventors [1-2])

Attorney's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Chandrasekhar		Boddu
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature B.Chandra Seidran

Date 9-18-97 . Country of Citizenship India

Residence Piscataway, New Jersey

Post Office Address 2995 Mindy Lane
Piscataway, New Jersey 08854

Full name of fifth joint inventor, if any

GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of sixth joint inventor, if any

GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

PATENT APPLICATION
9276.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant   :   Weinreich et al.

Serial No.   :   08/785,559

Filed   :   January 17, 1997

For   :   METHOD AND APPARATUS FOR CONSTRUCTING A NETWORKING DATABASE AND SYSTEM

Group Art Unit   :   Not yet known

Examiner   :   Not yet known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

RESPONSE TO NOTICE OF MISSING PARTS ENCLOSING COMBINED DECLARATION AND POWER OF ATTORNEY, REQUEST FOR SMALL ENTITY STATUS, AND PAYMENT OF FILING FEE PLUS SURCHARGE

Sir:

This is in response to the Notice to File Missing Parts of Application - Filing Date

Granted, dated April 1, 1997.

Applicants herewith submit a Combined Declaration and Power of Attorney signed in five counterparts by applicants, a Verified Statement Claiming Small Entity Status, a copy of the Notice of Missing Parts and a check for $450 including $65 in payment of the surcharge.

Also enclosed is a petition for a four month extension of time pursuant to 37 C.F.R. 1.136(a).

The Commissioner is hereby authorized to charge payment of any additional filing fees or extension of time fees required by this paper under 37 C.F.R. §§ 1.16, 1.17, or credit any overpayment of the same to Deposit Account No. 15-0665. A duplicate copy of this Response is enclosed.

Respectfully submitted,

Tzvi Hirshaut
Registration No. 38,732
Orrick Herrington & Sutcliffe LLP
666 Fifth Avenue
New York, New York 10103-0001
Telephone: (212) 506-5000
Facsimile: (212) 506-5151

Attorney for Applicants

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

     ☒   original.

     ☐   design.

     ☐   supplemental.

*NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do **not** check next item; check appropriate one of last three items.*

     ☐   national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

     ☐   divisional.

     ☐   continuation.

     ☐   ﹒continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor *(if only one name is listed below)* or an original, first and joint inventor *(if plural names are listed below)* of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Method And Apparatus For Constructing A Networking Database And System.

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☐ is attached hereto.

NOTE: *"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on <u>January 17, 1997</u>, as ☒ Serial No. 08 /<u>785,559</u>

or ☐ _____

and was amended on _____ *(if applicable).*

NOTE: *Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.*

NOTE: *"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐ was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ *(if any).*

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)–(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119	
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER   **FILING DATE**

_____ /_____   _____

_____ /_____   _____

_____ /_____   _____

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), *IF ANY,* FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

_____

_____

_____

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert M. Isackson	Reg no. 31,110
Tzvi Hirshaut	Reg no. 38,732
Charles W. Bradley	Reg no. 17,855
Larry B. Goodwin	Reg no. 29,642

(check the following item, if applicable)

Mark J. Pensabene	Reg no. 37,416
Bradford S. Breen	Reg no. 30,823

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

_____

SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: *(Name and telephone number)*
Robert M. Isackson Orrick, Herrington & Sutcliffe, LLP 666 Fifth Avenue New York, New York 10103	Robert M. Isackson 212 506-5000

_____

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Declaration and Power of Attorney [1-1]—page 5 of 7)

*(check proper box(es) for any of the following added page(s)
that form a part of this declaration)*

☑ **Signature** for fourth and subsequent joint inventors. *Number of pages added* ___4___.

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

*(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)*
☐ This declaration ends with this page.

SIGNATURE(S)

Full name of sole or first inventor

Andrew   P.   Weinreich
(GIVEN NAME)   _(MIDDLE INITIAL OR NAME)_   _FAMILY (OR LAST NAME)_

Inventor's signature _____

Date _____ Country of Citizenship _____U.S.A._____

Residence __New York, New York_____

Post Office Address __9 West 70th Street, Apt. 4R_____

New York, New York 10023

━━━━

Full name of second joint inventor, if any

Mark   R.   Salamon
(GIVEN NAME)   _(MIDDLE INITIAL OR NAME)_   _FAMILY (OR LAST NAME)_

Inventor's signature _____

Date _____ Country of Citizenship _____U.S.A._____

Residence __New York, New York_____

Post Office Address __156 West 75th Street, Apt. 1_____

New York, New York 10023

━━━━

Full name of third joint inventor, if any

Shoshana   _____   Zilberberg
(GIVEN NAME)   _(MIDDLE INITIAL OR NAME)_   _FAMILY (OR LAST NAME)_

Inventor's signature _____

Date _____ Country of Citizenship _____U.S.A._____

Residence __New York, New York_____

Post Office Address __28 West 88th Street_____

New York, New York 10024

Practitioner's Docket No. __9276.2__

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Nicole	D.	Berlyn
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __50 West 72nd Street, Apt. 603__

__New York, NY 10023__

Full name of fifth joint inventor, if any

Leeann		Mitchell
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __334 West 77th Street, Apt. 14__

__New York, NY 10021__

Full name of sixth joint inventor, if any

Cliff		Rosen
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __335 East 51st Street, Apt. LF__

__New York, NY 10022__

Practitioner's Docket No. _9276.2_

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Adam		Seifer
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __226 East 70th Street, Apt. 4H__
New York, NY   10021

Full name of fifth joint inventor, if any

Justin		Green
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __532 LaGuardia Place, Apt. 625__
New York, NY   10012

Full name of sixth joint inventor, if any

David		Haber
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __Great Neck, New York__

Post Office Address __36 Allenwood Road__
Great Neck, NY   11023-2127

(Added Page to Combined Declaration and Power of Attorney for Signature by Fourth and Subsequent Inventors [1-2])

Attorney's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

___Chandrasekhar___		___Boddu___
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __India__

Residence __Piscataway, New Jersey__

Post Office Address __2995 Mindy Lane__
__Piscataway, New Jersey 08854__

Full name of fifth joint inventor, if any

GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of sixth joint inventor, if any

GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☒ original.
- ☐ design.
- ☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do __not__ check next item; check appropriate one of last three items.

- ☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- ☐ divisional.
- ☐ continuation.
- ☐ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor *(if only one name is listed below)* or an original, first and joint inventor *(if plural names are listed below)* of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Method And Apparatus For Constructing A Networking Database

And System.

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☐   is attached hereto.

NOTE: *"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒   was filed on __January 17, 1997__, as ☒ Serial No. 08 /_785,559_

or ☐ _____

and was amended on _____ *(if applicable).*

NOTE: *Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.*

NOTE: *"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐   was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ *(if any).*

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)–(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119	
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐
			☐ YES	NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER　　　　　　　　　　　**FILING DATE**

_____ /_____　　　_____

_____ /_____　　　_____

_____ /_____　　　_____

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐　The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), *IF ANY,* FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

_____

_____

_____

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert M. Isackson   Reg no. 31,110
Tzvi Hirshaut   Reg no. 38,732
Charles W. Bradley   Reg no. 17,855
Larry B. Goodwin   Reg no. 29,642

(check the following item, if applicable)

Mark J. Pensabene   Reg no. 37,416
Bradford S. Breen   Reg no. 30,823

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

_____

SEND CORRESPONDENCE TO

Robert M. Isackson
Orrick, Herrington & Sutcliffe, LLP
666 Fifth Avenue
New York, New York 10103

DIRECT TELEPHONE CALLS TO:
(Name and telephone number)

Robert M. Isackson
212 506-5000

_____

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Declaration and Power of Attorney [1-1]—page 5 of 7)

*(check proper box(es) for any of the following added page(s)
that form a part of this declaration)*

☑ **Signature** for fourth and subsequent joint inventors. *Number of pages added*
___4___ .

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.
　　　　　　　　☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

*(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)*
　　　　　　　☐ This declaration ends with this page.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Andrew — P. — Weinreich
(GIVEN NAME) — (MIDDLE INITIAL OR NAME) — FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. ___

Residence __ New York, New York ___

Post Office Address __ 9 West 70th Street, Apt. 4R ___
New York, New York 10023

Full name of second joint inventor, if any

Mark — R. — Salamon
(GIVEN NAME) — (MIDDLE INITIAL OR NAME) — FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. ___

Residence __ New York, New York ___

Post Office Address __ 156 West 75th Street, Apt. 1 ___
New York, New York 10023

Full name of third joint inventor, if any

Shoshana — — Zilberberg
(GIVEN NAME) — (MIDDLE INITIAL OR NAME) — FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. ___

Residence __ New York, New York ___

Post Office Address __ 28 West 88th Street ___
New York, New York 10024

Practitioner's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Nicole	D.	Berlyn
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __50 West 72nd Street, Apt. 603__
__New York, NY 10023__

Full name of fifth joint inventor, if any

Leeann		Mitchell
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __334 West 77th Street, Apt. 14__
__New York, NY 10021__

Full name of sixth joint inventor, if any

Cliff		Rosen
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A.__

Residence __New York, New York__

Post Office Address __335 East 51st Street, Apt. LF__
__New York, NY 10022__

Attorney's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

David   Samuels

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A.

Residence Atlantic Beach, New York

Post Office Address 43 Dutchess Blvd.

Atlantic Beach, New York 11509

———

Full name of fifth joint inventor, if any

Ron   Chibnik

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A.

Residence New York, New York

Post Office Address 310 West 55th Street, Apt. 1E

New York, New York 10019

———

Full name of sixth joint inventor, if any

Scott   Clifford

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A.

Residence East Moriches, New York

Post Office Address 36 Watchogue Avenue

E. Moriches, New York 11940

Attorney's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

___Chandrasekhar___   _____   ___Boddu___
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _India_____

Residence __Piscataway, New Jersey_____

Post Office Address __2995 Mindy Lane_____
                  Piscataway, New Jersey 08854

Full name of fifth joint inventor, if any

_____   _____   _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Full name of sixth joint inventor, if any

_____   _____   _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Practitioner's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

___Adam___ _____ ___Seifer___
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___226 East 70th Street, Apt. 4H___
___New York, NY 10021___

▬▬▬

Full name of fifth joint inventor, if any

___Justin___ _____ ___Greene___
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___532 LaGuardia Place, Apt. 625___
___New York, NY 10012___

▬▬▬

Full name of sixth joint inventor, if any

___David___ _____ ___Haber___
GIVEN NAME MIDDLE INITIAL OR NAME FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___Great Neck, New York___

Post Office Address ___36 Allenwood Road___
___Great Neck, NY 11023-2127___

(Added Page to Combined Declaration and Power of Attorney for Signature by Fourth and Subsequent Inventors [1-2])

Attorney's Docket No. 9276.2

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

David _____ | _____ | Samuels _____
GIVEN NAME | MIDDLE INITIAL OR NAME | FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence __Atlantic Beach, New York__

Post Office Address __43 Dutchess Blvd.__
          Atlantic Beach, New York 11509

Full name of fifth joint inventor, if any

Ron _____ | _____ | Chibnik _____
GIVEN NAME | MIDDLE INITIAL OR NAME | FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence __New York, New York__

Post Office Address __310 West 55th Street, Apt. 1E__
          New York, New York 10019

Full name of sixth joint inventor, if any

Scott _____ | _____ | Clifford _____
GIVEN NAME | MIDDLE INITIAL OR NAME | FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence __East Moriches, New York__

Post Office Address __36 Watchogue Avenue__
          E. Moriches, New York 11940

Attorney's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

___Chandrasekhar___   _____   ___Boddu___

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___India_____

Residence ___Piscataway, New Jersey_____

Post Office Address ___2995 Mindy Lane___

                Piscataway, New Jersey 08854

———

Full name of fifth joint inventor, if any

_____   _____   _____

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

———

Full name of sixth joint inventor, if any

_____   _____   _____

GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

Practitioner's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Nicole	D.	Berlyn
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___50 West 72nd Street, Apt. 603___
___New York, NY   10023___

—————

Full name of fifth joint inventor, if any

Leeann		Mitchell
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___334 West 77th Street, Apt. 14___
___New York, NY   10021___

—————

Full name of sixth joint inventor, if any

Cliff		Rosen
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___335 East 51st Street, Apt. LF___
___New York, NY   10022___

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☒ original.
- ☐ design.
- ☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of last three items.

- ☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- ☐ divisional.
- ☐ continuation.
- ☐ .continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor *(if only one name is listed below)* or an original, first and joint inventor *(if plural names are listed below)* of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Method And Apparatus For Constructing A Networking Database And System.

(Declaration and Power of Attorney [1-1]—page 1 of 7)

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☐ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

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> "(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

> "(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on ___January 17, 1997___, as ☒ Serial No. 08 /_785,559___
or ☐ _____
and was amended on _____ *(if applicable).*

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> "(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);

> "(2) name of inventor(s), serial number and filing date;

> "(3) name of inventor(s) and attorney docket number which was on the specification as filed;

> "(4) name of inventor(s), title which was on the specification as filed and filing date;

> "(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

> "(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐ was described and claimed in PCT International Application No.
_____, filed on _____ and as
amended under PCT Article 19 on _____ *(if any).*

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)–(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER   **FILING DATE**

_____ /_____   _____

_____ /_____   _____

_____ /_____   _____

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐   The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), *IF ANY,* FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

NOTE: If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert M. Isackson	Reg no. 31,110
Tzvi Hirshaut	Reg no. 38,732
Charles W. Bradley	Reg no. 17,855
Larry B. Goodwin	Reg no. 29,642

(check the following item, if applicable)

Mark J. Pensabene   Reg no. 37,416

Bradford S. Breen   Reg no. 30,823

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: *(Name and telephone number)*
Robert M. Isackson	Robert M. Isackson
Orrick, Herrington & Sutcliffe, LLP	212 506-5000
666 Fifth Avenue	
New York, New York 10103	

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

☑ **Signature** for fourth and subsequent joint inventors. *Number of pages added* __4__ .

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____.

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

   ☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)

   ☐ This declaration ends with this page.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Andrew   P.   Weinreich
_____   _____   _____
(GIVEN NAME)   (MIDDLE INITIAL OR NAME)   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence ___ New York, New York _____

Post Office Address ___ 9 West 70th Street, Apt. 4R _____
                    New York, New York 10023

Full name of second joint inventor, if any

Mark   R.   Salamon
_____   _____   _____
(GIVEN NAME)   (MIDDLE INITIAL OR NAME)   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence ___ New York, New York _____

Post Office Address ___ 156 West 75th Street, Apt. 1 _____
                    New York, New York 10023

Full name of third joint inventor, if any

Shoshana   Zilberberg
_____   _____   _____
(GIVEN NAME)   (MIDDLE INITIAL OR NAME)   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___ U.S.A. _____

Residence ___ New York, New York _____

Post Office Address ___ 28 West 88th Street _____
                    New York, New York 10024

COMBINED DECLARATION AND POWER OF ATTORNEY

(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

☒ original.

☐ design.

☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do __not__ check next item; check appropriate one of last three items.

☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

☐ divisional.

☐ continuation.

☐ ˌcontinuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor *(if only one name is listed below)* or an original, first and joint inventor *(if plural names are listed below)* of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Method And Apparatus For Constructing A Networking Database

And System.

SPECIFICATION IDENTIFICATION

The specification of which:

(complete (a), (b) or (c))

(a) ☐ is attached hereto.

NOTE: *"The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

> *"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;*

> *"(2) name of inventor(s), and attorney docket number which was on the specification as filed;* or

> *"(3) name of inventor(s), and title which was on the specification as filed."*

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on ___January 17, 1997___, as ☒ Serial No. 08 /__785,559__

or ☐ _____

and was amended on _____ *(if applicable).*

NOTE: *Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.*

NOTE: *"The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:*

> *"(1) name of inventor(s), and application number (consisting of the series code and the serial number; e.g.,08/123,456);*

> *"(2) name of inventor(s), serial number and filing date;*

> *"(3) name of inventor(s) and attorney docket number which was on the specification as filed;*

> *"(4) name of inventor(s), title which was on the specification as filed and filing date;*

> *"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or*

> *"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g.,08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."*

Notice of July 13, 1995 (1177 O.G. 60).

(c) ☐ was described and claimed in PCT International Application No. _____, filed on _____ and as amended under PCT Article 19 on _____ *(if any).*

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56,

(also check the following items, if desired)

☐ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

☐ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)–(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)–(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed priority check item (e), enter the details below and make the priority claim.

(Declaration and Power of Attorney [1-1]—page 3 of 7)

PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)–(d)

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐
			☐ YES NO ☐

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER   **FILING DATE**

_____ /_____   _____

_____ /_____   _____

_____ /_____   _____

CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S) UNDER 35 U.S.C. 120

☐   The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

ALL FOREIGN APPLICATION(S), *IF ANY*, FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

_____

_____

_____

NOTE: *If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.*

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

(list name and registration number)

Robert M. Isackson	Reg no. 31,110
Tzvi Hirshaut	Reg no. 38,732
Charles W. Bradley	Reg no. 17,855
Larry B. Goodwin	Reg no. 29,642

(check the following item, if applicable)

Mark J. Pensabene	Reg no. 37,416
Bradford S. Breen	Reg no. 30,823

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO	DIRECT TELEPHONE CALLS TO: *(Name and telephone number)*
Robert M. Isackson Orrick, Herrington & Sutcliffe, LLP 666 Fifth Avenue New York, New York 10103	Robert M. Isackson 212 506-5000

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

(Declaration and Power of Attorney [1-1]—page 5 of 7)

*(check proper box(es) for any of the following added page(s)
that form a part of this declaration)*

☑ **Signature** for fourth and subsequent joint inventors. *Number of pages added*
___4____.

* * *

☐ **Signature** by administrator(trix), executor(trix) or legal representative for deceased or incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person authorized under 37 CFR 1.47. *Number of pages added* _____

* * *

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s) where legal representative cannot be appointed in time. (37 CFR 1.47)

* * *

☐ Added pages to combined declaration and power of attorney for divisional, continuation, or continuation-in-part (C-I-P) application.

☐ Number of pages added _____

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

*(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)*

☐ This declaration ends with this page.

SIGNATURE(S)

Full name of sole or first inventor

Andrew	P.	Weinreich
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date _____ **Country of Citizenship** _____ U.S.A. _____

Residence __ New York, New York __

Post Office Address __ 9 West 70th Street, Apt. 4R __

__ New York, New York 10023 __

Full name of second joint inventor, if any

Mark	R.	Salamon
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date _____ **Country of Citizenship** _____ U.S.A. _____

Residence __ New York, New York __

Post Office Address __ 156 West 75th Street, Apt. 1 __

__ New York, New York 10023 __

Full name of third joint inventor, if any

Shoshana		Zilberberg
(GIVEN NAME)	*(MIDDLE INITIAL OR NAME)*	*FAMILY (OR LAST NAME)*

Inventor's signature _____

Date _____ **Country of Citizenship** _____ U.S.A. _____

Residence __ New York, New York __

Post Office Address __ 28 West 88th Street __

__ · New York, New York 10024 __

Practitioner's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

Adam		Seifer
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___226 East 70th Street, Apt. 4H___
___New York, NY 10021___

▬▬▬

Full name of fifth joint inventor, if any

Justin		Greene
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___New York, New York___

Post Office Address ___532 LaGuardia Place, Apt. 625___
___New York, NY 10012___

▬▬▬

Full name of sixth joint inventor, if any

David		Haber
GIVEN NAME	MIDDLE INITIAL OR NAME	FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___U.S.A.___

Residence ___Great Neck, New York___

Post Office Address ___36 Allenwood Road___
___Great Neck, NY 11023-2127___

Attorney's Docket No. _9276.2_

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

David _____ _____ Samuels _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A._____

Residence __Atlantic Beach, New York_____

Post Office Address __43 Dutchess Blvd._____
                      Atlantic Beach, New York 11509

■■■■■

Full name of fifth joint inventor, if any
Ron   Chibnik
_____ _____ _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A._____

Residence __New York, New York_____

Post Office Address __310 West 55th Street, Apt. 1E_____
                      New York, New York 10019

■■■■■

Full name of sixth joint inventor, if any
Scott   Clifford
_____ _____ _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship __U.S.A._____

Residence __East Moriches, New York_____

Post Office Address __36 Watchogue Avenue_____
                      E. Moriches, New York 11940

Attorney's Docket No. ___9276.2___

ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY FOURTH AND SUBSEQUENT INVENTORS

Full name of fourth joint inventor, if any

___Chandrasekhar___   _____   ___Boddu___
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship ___India___

Residence ___Piscataway, New Jersey___

Post Office Address ___2995 Mindy Lane___
___Piscataway, New Jersey 08854___

▬▬▬

Full name of fifth joint inventor, if any

_____   _____   _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

▬▬▬

Full name of sixth joint inventor, if any

_____   _____   _____
GIVEN NAME   MIDDLE INITIAL OR NAME   FAMILY (OR LAST NAME)

Inventor's signature _____

Date _____ Country of Citizenship _____

Residence _____

Post Office Address _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Weinreich et al.

Serial No.:   08/785,559

Filed: January 17, 1997

For: METHOD AND APPARATUS FOR CONSTRUCTING A
                    NETWORKING DATABASE AND SYSTEM

Examiner: Not yet known   Group Art Unit: Not yet known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

PETITION FOR EXTENSION OF TIME (37 C.F.R. 1.136(a))

Sir:

This is a petition for an extension of time for a total of 4 months to <u>October 1,</u>

<u>1997</u> for filing a <u>Response to the Notice of Missing Parts mailed April 1, 1997</u>.

A response in connection with the matter for which this extension is requested:

[X] is filed herewith.

[ ] has been filed.

EXPRESS MAIL CERTIFICATE 37 CFR 1.10
I hereby certify that this correspondence is
being deposited with the United States Postal
Service as "Express Mail Post Office to
Addressee" service under 37 CFR § 1.10
Mailing Label No. **EM 431423932 US**
addressed to Box Missing Parts,
Assistant Commissioner for Patents,
Washington, D.C. 20231 on October 1, 1997

_____
(Name)

NY2-346448.1

STATUS

Applicant is:

[X] a small entity - verified statement:

[X] attached.

[ ] already filed.

[ ] other than a small entity.

CALCULATION OF EXTENSION FEE (37 CFR §1.17(a)-(d)

Extension (months)	Fee for other than small entity	Fee for small entity
[ ] One Month	[ ] $110.00	[ ] $55.00
[ ] Two Months	[ ] $390.00	[ ] $195.00
[ ] Three Months	[ ] $930.00	[ ] $465.00
[X] Four Months	[ ] $1,470.00	[X] $735.00

[ ]   An extension for __ months has already been secured and the fee paid

therefor of $____ is deducted from the total fee due for the total

months of extension now requested.

Total extension fee required $ 735.00.

[X] A check in the amount of $ 735.00 is enclosed.

[ ] Please charge Deposit Account No. 15-0665.
A duplicate copy of this sheet is enclosed.

ADDITIONAL FEES/CREDITS

If any additional extension of time is required, please consider this a petition therefor. Please charge any additional fees or credit any overpayments for this Petition for Extension of Time to Deposit Account No. 15-0665. A duplicate copy of this sheet is enclosed.

Dated: New York, New York
      October 1, 1997

Respectfully submitted,

Tzvi Hirshaut
Reg. No. 38,732
ORRICK, HERRINGTON & SUTCLIFFE LLP
666 Fifth Avenue
New York, New York 10103
Telephone: (212) 506-5000

Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Weinreich et al.

Serial No.:   08/785,559

Filed: January 17, 1997

For: METHOD AND APPARATUS FOR CONSTRUCTING A
NETWORKING DATABASE AND SYSTEM

Examiner: Not yet known   Group Art Unit: Not yet known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D.C. 20231

PETITION FOR EXTENSION OF TIME (37 C.F.R. 1.136(a))

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A response in connection with the matter for which this extension is requested:

[X] is filed herewith.

[ ] has been filed.

EXPRESS MAIL CERTIFICATE 37 CFR 1.10
I hereby certify that this correspondence is
being deposited with the United States Postal
Service as "Express Mail Post Office to
Addressee" service under 37 CFR § 1.10
Mailing Label No. **EM 431423932 US**
addressed to Box Missing Parts,
Assistant Commissioner for Patents,
Washington, D.C. 20231 on October 1, 1997

_____
(Name)

NY2-346448.1

STATUS

Applicant is:

[X] a small entity – verified statement:

    [X] attached.

    [ ] already filed.

[ ] other than a small entity.

CALCULATION OF EXTENSION FEE (37 CFR §1.17(a)-(d)

Extension (months)	Fee for other than small entity	Fee for small entity
[ ] One Month	[ ] $110.00	[ ] $55.00
[ ] Two Months	[ ] $390.00	[ ] $195.00
[ ] Three Months	[ ] $930.00	[ ] $465.00
[X] Four Months	[ ] $1,470.00	[X] $735.00

[ ]   An extension for __ months has already been secured and the fee paid

therefor of $____ is deducted from the total fee due for the total

months of extension now requested.

Total extension fee required $__735.00__.

[X] A check in the amount of $__735.00__ is enclosed.

[ ] Please charge Deposit Account No. 15-0665.
A duplicate copy of this sheet is enclosed.

ADDITIONAL FEES/CREDITS

If any additional extension of time is required, please consider this a petition therefor. Please charge any additional fees or credit any overpayments for this Petition for Extension of Time to Deposit Account No. 15-0665. A duplicate copy of this sheet is enclosed.

Dated: New York, New York
October 1, 1997

Respectfully submitted,

Tzvi Hirshaut
Reg. No. 38,732
ORRICK, HERRINGTON & SUTCLIFFE LLP
666 Fifth Avenue
New York, New York 10103
Telephone: (212) 506-5000

Attorney for Applicants

PATENT APPLICATION
Attorney Docket No. <u>9276/2</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant   :   Weinreich et al.

Serial No.   :   08/785,559

Filed   :   January 17, 1997

For   :   METHOD AND APPARATUS FOR CONSTRUCTING A
NETWORKING DATABASE AND SYSTEM

Group   :   Not yet known.

Examiner   :   Not yet known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D. C. 20231

PRELIMINARY AMENDMENT TRANSMITTAL

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified

application.

NY2-334318.1

9276-2-SV1-10/01/97

STATUS

Applicant is:

[X] a small entity - verified statement:

[X] attached.

[ ] already filed.

[ ] other than a small entity.

FEE FOR CLAIMS

The fee for claims (37 CFR §1.16(b)-(d)) has been calculated as shown below:

CLAIMS AS AMENDED					
	Claims Remaining after Amendment	Highest No. Previously Paid For	Present Extra	Rate	Additional Fee
Total Claims	31 -	20 =	11 x	$ 11 =	$ 121.00
Indep. Claims	3 -	3 =	0 x	$ 40 =	$ 0
First presentation of multiple dep. claim			+	$250 =	$ 0
		Total Additional Fee for this Amendment			$ 121.00

[ ] No additional fee for claims is required.

[X] Total additional fee for claims required $121.00.

[X] A check in the amount of $121.00 is enclosed.

[ ] Please charge Deposit Account No. 15-0665.
A duplicate copy of this sheet is enclosed.

ADDITIONAL FEES/CREDITS

Please charge any additional fees or credit any overpayments for this

Amendment or for the Petition for Extension of Time to Deposit Account No. <u>15-0665</u>. A

duplicate copy of this sheet is enclosed.

Respectfully submitted,

Tzvi Hirshaut
Reg. No. 38,732
Orrick, Herrington & Sutcliffe LLP
666 Fifth Avenue
New York, New York 10103-0001
Telephone: (212) 506-5000

Attorney for Applicants

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Weinreich et al.

Serial No. : 08/785,559

Filed : January 17, 1997

For : METHOD AND APPARATUS FOR CONSTRUCTING A NETWORKING DATABASE AND SYSTEM

Group : Not yet known.

Examiner : Not yet known

New York, New York
October 1, 1997

Box Missing Parts
Assistant Commissioner for Patents
Washington, D. C. 20231

PRELIMINARY AMENDMENT TRANSMITTAL

Sir:

Transmitted herewith is a Preliminary Amendment in the above-identified

application.

EXPRESS MAIL CERTIFICATE 37 CFR 1.10
I hereby certify that this correspondence is
being deposited with the United States Postal
Service as "Express Mail Post Office to
Addressee" service under 37 CFR § 1.10
Mailing Label No. EM 431423932 US
addressed to Box Missing Parts,
Assistant Commissioner for Patents,
Washington, D.C. 20231, on October 1, 1997

Derrick McKenly

STATUS

Applicant is:

[X] a small entity - verified statement:

[X] attached.

[ ] already filed.

[ ] other than a small entity.

FEE FOR CLAIMS

The fee for claims (37 CFR §1.16(b)-(d)) has been calculated as shown below:

CLAIMS AS AMENDED					
	Claims Remaining after Amendment	Highest No. Previously Paid For	Present Extra	Rate	Additional Fee
Total Claims	31 - 20 =		11 x	$ 11 =	$ 121.00
Indep. Claims	3 - 3 =		0 x	$ 40 =	$ 0
First presentation of multiple dep. claim			+	$250 =	$ 0
		Total Additional Fee for this Amendment			$ 121.00

[ ] No additional fee for claims is required.

[X] Total additional fee for claims required $121.00.

[X] A check in the amount of $121.00 is enclosed.

[ ] Please charge Deposit Account No. 15-0665.
A duplicate copy of this sheet is enclosed.

ADDITIONAL FEES/CREDITS

Please charge any additional fees or credit any overpayments for this

Amendment or for the Petition for Extension of Time to Deposit Account No. <u>15-0665</u>. A

duplicate copy of this sheet is enclosed.

Respectfully submitted,

Tzvi Hirshaut
Reg. No. 38,732
Orrick, Herrington & Sutcliffe LLP
666 Fifth Avenue
New York, New York 10103-0001
Telephone: (212) 506-5000

Attorney for Applicants